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AZ-900: Microsoft Azure Fundamentals

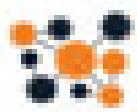
Practice Questions

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AZ-900: Microsoft Azure Fundamentals

Practice Questions

Fourth Edition

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About the Authors:

This book has been compiled with the help of multiple professional engineers. These engineers specialize in different fields, e.g., Networking, Security, Cloud, Big Data, IoT, etc. Each engineer develops content in their specialized field that is compiled to form a comprehensive certification guide.

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Having started from the grassroots level as an engineer and contributed to the Introduction of internet in Pakistan and elsewhere, a professional journey of over twenty-nine years

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Dr. Fahad Abdali is a seasoned leader with extensive experience in managing diverse businesses. With an impressive twenty years track record, Dr. Abdali brings a wealth of expertise to the table. Holding a bachelor's degree from the NED University of Engineers & Technology and Ph.D. from the University of Karachi, he has consistently demonstrated a deep commitment to academic excellence and professional growth. Driven by a passion for innovation and a keen understanding of industry dynamics, he has successfully navigated complex challenges, driving growth and fostering organizational success.

Mehwish Jawed

Mehwish Jawed is working as a Senior Research Analyst. She holds a Master's and Bachelors of Engineering degree in Telecommunication Engineering from NED University of Engineering and Technology. She also worked under the supervision of HEC Approved supervisor. She has more than three published papers, including both conference and journal papers. She has a great knowledge of TWDM Passive Optical Network (PON). She also worked as a Project Engineer, Robotic Trainer in a private institute and has research skills in the field of communication networks. She has both technical knowledge and industry-sounding information, which she utilizes effectively when needed. She has expertise in cloud platforms such as AWS, GCP, Oracle, and Microsoft Azure.

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Hareem Khan is currently working as a Technical Content Developer, having command over networking and security. She has completed training in CCNA and Cybersecurity. She holds a BE in Telecommunications Engineering from the NED University of Engineering and Technology. She has strong knowledge of all the basics of IP and Security Networks and Routing and Switching Protocols. She has worked on various certification courses of Azure, Microsoft, and GCP. She is part of the content development team and has expertise on Azure, Microsoft, Security, and GCP labs.

Free Resources:

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Career Report: This report is a step-by-step guide for a novice who wants to develop his/her career in computer networks. It answers the following queries:

- What are the current scenarios and prospects?
- Is this industry moving toward saturation, or are new opportunities knocking at the door?
- What will the monetary benefits be?
- Why get certified?
- How to plan, and when will I complete the certifications if I start today?
- Is there any career track I can follow to accomplish the specialization level?

Furthermore, this guide provides a comprehensive career path toward being a specialist in networking and highlights the tracks needed to obtain certification.

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Good customer service means helping customers efficiently

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Excellent customer service will attract more customers and attain maximum customer retention.

IPS offers personalized TECH support to its customers to provide better value for money. If you have any queries related to technology and labs, you can ask our technical team for assistance via Live Chat or Email.

Our Products

Study Guides

IPSpecialist Study Guides are the ideal guides to developing the hands-on skills necessary to pass the exam. Our workbooks cover the official exam blueprint and explain the technology with real-life case study-based labs. The content covered in each workbook consists of individually focused technology topics presented in an easy-to-follow, goal-

oriented, step-by-step approach. Every scenario features detailed breakdowns and thorough verifications to help you completely understand the task and associated technology.

We extensively used mind maps in our workbooks to visually explain the technology. Our workbooks have become a widely used tool to learn and remember information effectively.

Practice Questions

IP Specialists' Practice Questions are dedicatedly designed from a certification exam perspective. The collection of these questions from our Study Guides is prepared to keep the exam blueprint in mind, covering not only important but necessary topics. It is an ideal document to practice and revise your certification.

Exam Cram

Our Exam Cram notes are a concise bundling of condensed notes of the complete exam blueprint. It is an ideal and handy document to help you remember the most important technology concepts related to the certification exam.

Hands-on Labs

IPSpecialist Hands-on Labs are the fastest and easiest way to learn real-world use cases. These labs are carefully

designed to prepare you for the certification exams and your next job role. Whether you are starting to learn technology or solving a real-world scenario, our labs will help you learn the core concepts in no time.

IPSpecialist self-paced labs are designed by subject matter experts and provide an opportunity to use products in a variety of pre-designed scenarios and common use cases, giving you hands-on practice in a simulated environment to help you gain confidence. You have the flexibility to choose from topics and products about which you want to learn more.

Companion Guide

Companion Guides are portable desk guides for the IPSpecialist course materials that users (students, professionals, and experts) can access at any time and from any location. Companion Guides are intended to supplement online course material by assisting users in concentrating on key ideas and planning their study time for quizzes and examinations.

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MICROSOFT CERTIFICATIONS

Microsoft Azure Certifications are industry-recognized credentials that validate your technical Cloud skills and expertise while assisting your career growth. These are one of the most valuable IT certifications since Azure has established an overwhelming growth rate in the public cloud market. Even with several tough competitors such as Amazon Web Services, Google Cloud Engine, and Rackspace, Azure will be the dominant public cloud platform today, with an astounding collection of proprietary services that continues to grow.

In this certification, we will discuss cloud concepts where we will learn the core benefits of using Azure, like high availability, scalability, etc. We will talk about the Azure Architecture in which cloud resources are put together to work at best; Azure Compute, where you will learn how to run applications in Azure; Networking, in which the discussion is on how Azure resources communicate with each other; Storage, where you put all of your data and have different ways of storing it. We will also cover databases used for data storage, their efficient retrieval as per demand, and ensuring that the users have the right access to the resources. Also, we will counter some complex scenarios with their solutions. We will have discussions on important topics like Security, which makes Azure the best secure

choice for your applications and functions; Privacy, Compliance, and Trust which make sure services ensure privacy; and how you stay compliant with standards. As well as, pricing in Azure to stay ahead on cost.

AZ-900 is the first certification of Microsoft Azure, the foundational certificate in Azure. After this certification, you can prove to the world that you are proficient and have the credibility to reach the highest point of your professional life.

Value of Azure Certifications

Microsoft emphasizes sound conceptual knowledge of its entire platform and hands-on experience with the Azure infrastructure and its many unique and complex components and services.

For Individuals

- Demonstrate your expertise in designing, deploying, and operating highly available, cost-effective, and secured applications on Microsoft Azure.
- Gain recognition and visibility of your proven skills and proficiency with Azure.
- Earn tangible benefits such as access to the Microsoft Certified Community, getting invited to Microsoft Certification Appreciation Receptions and Lounges, obtaining Microsoft Certification Practice Exam Voucher and Digital Badge for certification validation, and Microsoft Certified Logo usage.
- Foster credibility with your employer and peers.

For Employers

- Identify skilled professionals to lead IT initiatives with Cloud technologies.
- To implement your workloads and projects on the Azure platform, reduce risks and costs.
- Increase customer satisfaction.

Types of Certifications

Role-based Certification

- **Fundamental** - Validates overall understanding of the Azure Cloud.
- **Associate**- Technical role-based certifications. No pre-requisite is required.
- **Expert**- Highest level technical role-based certification.

About Microsoft Certified: Microsoft Azure Fundamentals

Exam Questions	Case study, short answer, repeated answer, MCQs
Number of Questions	40-60
Time to Complete	85 minutes
Exam Fee	99 USD

Candidates for the AZ-900 exam should have the foundational knowledge of cloud services and how those services are provided with Microsoft Azure. The exam is intended for candidates who are just beginning to work with cloud-based solutions and services or are new to Azure. The Azure Fundamentals exam is an opportunity to prove knowledge of cloud concepts, Azure services, Azure workloads, security and privacy in Azure, and Azure pricing and support. Candidates should be familiar with general technology concepts, including networking, storage, compute, application support, and application development. Azure Fundamentals can be used to prepare for other Azure role-based or specialty certifications, but it is not a prerequisite for any of them.

This exam measures your ability to accomplish the following technical tasks:

- Describe cloud concepts 25-30%
- Describe Azure architecture and services 35-40%
- Describe Azure management and governance 30-35%

Recommended Knowledge

- Identify the benefits and considerations of using cloud services
- Describe the differences between categories of cloud services
- Describe the differences between types of cloud computing
- Describe the core Azure architectural components
- Describe core resources available in Azure
- Describe core solutions available in Azure
- Describe Azure management tools
- Describe Azure security features
- Describe Azure network security
- Describe core Azure identity services
- Describe Azure governance features
- Describe privacy and compliance resources
- Describe methods for planning and managing costs
- Describe Azure Service Level Agreements (SLAs) and service lifecycles

All the required information is included in this Study Guide.

	Domain	Percentage
Domain 1	Describe cloud concepts	25-30%

Domain 2	Describe Azure architecture and services	35-40%
Domain 3	Describe Azure management and governance	30-35%

PRACTICE QUESTIONS

1. What is the maximum usable storage capacity of a Data Box device?
 - A. 50 TB
 - B. 80 TB
 - C. 100 TB
 - D. 120 TB

2. In which scenarios is Data Box ideally suited for transferring data to Azure?
 - A. Data sizes less than 20 TB
 - B. Limited network connectivity scenarios
 - C. Real-time data transfers
 - D. Both A and C

3. What is the primary purpose of the local web UI for Data Box?
 - A. Daily administration tasks

- B. Data encryption
 - C. Network configuration
 - D. Disk erasure
4. How is the security of data ensured during the transit of a Data Box device?
- A. GPS tracking
 - B. Tamper-resistant screws and stickers
 - C. Firewall protection
 - D. Data Box encryption key
5. What is Azure Resource Manager (ARM)?
- A. A virtual machine resource provider.
 - B. A programming language for Azure resources.
 - C. The deployment and management service for Azure.
 - D. An authentication and authorization service for Azure.
6. What is a resource group in Azure?

- A. A group of virtual machines.
 - B. A container for managing related Azure resources.
 - C. A specific location within a data center.
 - D. A collection of Azure policies.
7. What is the purpose of a resource group's location in Azure?
- A. It determines the geographic location of resources.
 - B. It stores metadata about the resources for compliance reasons.
 - C. It specifies the location for deploying resources.
 - D. It defines the access control for resources.
8. How are ARM templates different from scripts for managing Azure resources?
- A. ARM templates use declarative syntax to define resource properties.
 - B. Scripts are more efficient in managing resource dependencies.

- C. ARM templates are written in a scripting language.
 - D. Scripts have a graphical user interface for resource management.
9. What is the maximum number of instances of a resource type allowed in a resource group?
- A. 500 instances
 - B. 800 instances
 - C. Unlimited instances
 - D. 1000 instances
10. How does Azure Resource Manager ensure resiliency?
- A. By depending on a single logical data center.
 - B. By taking down for maintenance activities regularly.
 - C. By being distributed across regions and availability zones.
 - D. By relying on a backup control plane.
11. What is an extension resource in Azure?

- A. A resource with limited capabilities.
- B. A resource that adds to another resource's capabilities.
- C. A resource that exists outside of a resource group.
- D. A standalone resource without dependencies.

12 What happens when you delete a resource group in Azure?

- A: Only metadata is deleted.
- B: All resources in the resource group are also deleted.
- C: Resource group location is changed.
- D: Only tags associated with the resource group are deleted.

13. How can you manage access control for administrative actions in Azure Resource Manager?

- A. Apply tags to resources.
- B. Assign Azure Policies, Azure roles, or resource locks to a resource group.
- C. Use PowerShell commands.
- D. Configure access in the Azure portal settings.

14. What is the purpose of applying tags to a resource group in Azure?

- A. To define the location of the resource group.
- B. To organize resources logically.
- C. To specify the deployment sequence of resources.
- D. To define resource dependencies.

15. What is the primary purpose of a Disaster Recovery (DR) plan?

- A. To automate routine tasks in the cloud environment.
- B. To store data in a secure data store.
- C. To define strategies for recovering from large-scale disasters.
- D. To conduct regular performance audits.

16. What types of incidents are considered disasters in the context of a DR plan?

- A. Minor resource failures.

- B. Regional outages, service outages, and malicious attacks.
- C. Routine maintenance activities.
- D. Network latency issues.

17. Why is it essential to clearly define roles and responsibilities in a DR plan?

- A. To assign blame in case of a failure.
- B. To streamline day-to-day operations.
- C. To ensure efficient communication and coordination during a disaster.
- D. To reduce the need for regular updates to the plan.

18. What is the importance of separating the fallback plan from the DR plan?

- A. To confuse operators during the recovery process.
- B. To streamline the overall DR procedures.
- C. To avoid potential confusion and replicate necessary steps.
- D. To minimize the need for automation.

19. How can automation be a risk in the context of a DR plan?

- A. Automation always slows down the recovery process.
- B. Trained operators need to carefully monitor automated processes.
- C. Automation is not suitable for large-scale disasters.
- D. Automation is only effective in nonproduction environments.

20. What is the purpose of conducting regular DR drills?

- A. To meet compliance requirements.
- B. To confuse operators.
- C. To replace the need for a formal DR plan.
- D. To test the validity of the DR plan and recovery metrics.

21. What is the primary purpose of redundancy in Azure Storage?

- A. To increase data access speed.

- B. To reduce storage costs.
- C. To protect data from planned and unplanned events.
- D. To limit the number of data copies.

22. What are the key factors to consider when choosing a redundancy option for Azure Storage?

- A. Speed and capacity.
- B. Cost and compliance.
- C. Availability and durability.
- D. Latency and throughput.

23. Which redundancy option is the least expensive but not recommended for high-availability applications?

- A. Zone-redundant storage (ZRS).
- B. Geo-redundant storage (GRS).
- C. Locally redundant storage (LRS).
- D. Geo-zone-redundant storage (GZRS).

24. How many times is data replicated within the primary region in Locally Redundant Storage (LRS)?

- A. Once.
- B. Twice.
- C. Three times.
- D. Four times.

25. Which redundancy option is recommended for Azure Data Lake Storage Gen2 workloads?

- A. Locally redundant storage (LRS).
- B. Zone-redundant storage (ZRS).
- C. Geo-redundant storage (GRS).
- D. Geo-zone-redundant storage (GZRS)

26. What does Zone-redundant storage (ZRS) replicate data across in the primary region?

- A. Multiple countries.
- B. Multiple data centers.
- C. Three Azure availability zones.
- D. Different storage accounts.

27. What is the durability percentage provided by Zone-redundant storage (ZRS) over a given year?

- A. At least 99.9%.
- B. At least 99.999999999%.
- C. At least 99.9999999999%.
- D. At least 99.9999999999999%.

28. What is the primary difference between Geo-redundant storage (GRS) and Geo-zone-redundant storage (GZRS)?

- A. The number of data copies.
- B. The use of availability zones.
- C. The geographic distance between replicas.
- D. The replication latency.

29. What happens during a failover in Geo-redundant storage (GRS) or Geo-zone-redundant storage (GZRS)?

- A. Data becomes inaccessible.
- B. The secondary region becomes the new primary region.

C. Data is asynchronously replicated to the secondary region.

D. Data in the secondary region is directly accessible.

30. What does Read-access geo-redundant storage (RA-GRS) provide in addition to Geo-redundant storage (GRS)?

A. Reduced latency.

B. Read access to the secondary region.

C. Increased durability.

D. Automatic failover.

31. Which Azure Storage service does not support Read-access geo-redundant storage (RA-GRS)?

A. Blob storage.

B. Queue storage.

C. Table storage.

D. Azure Files.

32. How can applications be designed to seamlessly shift to reading data from the secondary region?

- A. Enable Geo-redundant storage (GRS).
- B. Configure Read-access geo-redundant storage (RA-GRS).
- C. Use Locally redundant storage (LRS).
- D. Implement an automatic failover.

33. What is the recovery point objective (RPO) in asynchronous geo-replication?

- A. The point at which the failover occurs.
- B. The interval between the most recent writes to the primary and the last write to the secondary.
- C. The time taken to replicate data to the secondary region.
- D. The latency in accessing data during failover.

34. Which redundancy option is designed for maximum consistency, durability, and availability in disaster recovery scenarios?

- A. Locally redundant storage (LRS).

- B. Zone-redundant storage (ZRS).
 - C. Geo-redundant storage (GRS).
 - D. Geo-zone-redundant storage (GZRS).
35. Which Azure Storage service does NOT support Geo-zone-redundant storage (GZRS)?
- A. Azure Blob storage.
 - B. Azure Queue storage.
 - C. Azure Table storage.
 - D. Azure Files.
36. What is the primary purpose of defining a naming convention for Azure resources, including virtual networks?
- A. To reduce costs.
 - B. To ensure uniqueness.
 - C. To improve performance.
 - D. To enhance security.

37. In which Azure region and subscription must a resource be created to ensure compatibility with a virtual network?

- A. Any region and subscription.
- B. Same region, different subscription.
- C. Different region, same subscription.
- D. Same region, same subscription

38. What should be considered when deciding on Azure regions for resource deployment?

- A. Network latency only.
- B. Data residency, sovereignty, and compliance only.
- C. Availability zones support only.
- D. Network latency, data residency, sovereignty, compliance, and availability zone support.

39. What is a consideration when deciding the number of virtual networks in a subscription?

- A. Maximum subscription limit.
- B. Organizational security requirements.

C. Availability zone support.

D. Data residency.

40. What does a virtual network in Azure represent?

A. A physical network infrastructure.

B. An isolated portion of the Azure public network.

C. A collection of on-premises servers.

D. A dedicated network for Azure support.

41. When connecting virtual networks, what appliance can be used to control traffic flow between them?

A. Load Balancer.

B. Firewall.

C. Gateway.

D. Virtual Machine.

42. How can traffic filtering be achieved between resources in a virtual network?

A. Using network latency.

- B. Using Azure Policy.
- C. Using a Network Security Group (NSG) or Network Virtual Appliance (NVA).
- D. Using naming conventions.

43. What is the purpose of a Network Security Group (NSG) in Azure?

- A. Load balancing.
- B. Traffic filtering.
- C. Resource naming.
- D. Traffic routing.

44. How can Azure's default routing between subnets be overridden?

- A. By using a Network Security Group (NSG).
- B. By deploying a Virtual Machine.
- C. By creating a route table and associating it with a subnet.
- D. By enforcing naming conventions.

45. What is the purpose of virtual network peering in Azure?

- A. Load balancing between virtual networks.
- B. Enabling connectivity between on-premises and Azure.
- C. Connecting virtual networks within the same or different regions.
- D. Enforcing naming conventions.

46. How can an Azure VPN Gateway be used in the context of virtual networks?

- A. To filter network traffic.
- B. To enforce naming conventions.
- C. To connect a virtual network to an on-premises network.
- D. To create a route table.

47. What is required for name resolution between resources in peered virtual networks?

- A. Azure's built-in DNS.
- B. Azure DNS private domains.
- C. A Network Security Group (NSG).

D. A Virtual Machine.

48. Which Azure service is used for assigning permissions and roles for virtual network capabilities?

A. Azure Policy.

B. Azure AD Identity Protection.

C. Azure RBAC (Role-Based Access Control).

D. Azure Policy.

49. What does Azure Policy enable in the context of virtual networks?

A. Traffic filtering.

B. Route table creation.

C. Enforcing organizational standards and service level agreements.

D. Virtual network peering.

50. When deploying Azure Policy, what does it evaluate in your resources?

- A. Network latency.
- B. Resource compliance with policy definitions.
- C. Availability zones support.
- D. Naming convention adherence.

51. To what should an application connect to retrieve security tokens?

- A. Azure Storage account
- B. Microsoft Entra ID
- C. Certificate store
- D. Azure Key Vault

52. You have several virtual machines in an Azure subscription. You create a new subscription.

- A. No change is needed.
- B. VMs can transfer to the new subscription.
- C. The virtual machines can be moved to the new subscription-only if they are all in the same resource group.

D. Windows Server 2016 is a prerequisite for transferring virtual machines to the new subscription.

53. Your company plans to deploy an Artificial Intelligence (AI) solution in Azure. To develop, test, and deploy predictive analytics solutions, the company should leverage a platform designed for data science and machine learning, such as Azure Machine Learning, AWS SageMaker, or Google Cloud AI Platform.?

A. Azure Logic Apps

B. Azure Machine Learning Studio

C. Azure Batch

D. Azure Cosmos DB

54. To establish a network drive mapping from multiple Windows 10 computers to Azure Storage, you should set up an Azure File Share. This solution enables the creation of a shared storage location in Azure, which can be accessed and mapped as a network drive by multiple Windows 10 machines, providing a centralized and scalable file storage solution in the cloud.

A. Azure SQL database

- B. Virtual machine data disk
- C. Files service in a storage account
- D. Blobs service in a storage account

55. What is required to use Azure Cost Management?

- A. Dev/Test subscription
- B. Software Assurance
- C. Enterprise Agreement (EA)
- D. Pay-as-you-go subscription

56. What is the main purpose of deciding the cloud deployment type or architecture?

- A. To determine the cost
- B. To decide the cloud pricing model
- C. To meet business requirements for cloud computing
- D. To choose the cloud service provider

57. In a public cloud, who owns and manages the resources such as servers and disks?

- A. The organization using the cloud
- B. The government
- C. The cloud provider
- D. Azure Stack

58. What is the primary advantage of using the public cloud approach?

- A. Higher security
- B. Localized data storage
- C. Lower cost, scalability, and flexibility
- D. Complete control over physical hardware

59. Which cloud deployment model is characterized by computing resources used exclusively by a business or organization?

- A. Public Cloud
- B. Private Cloud

C. Hybrid Cloud

D. Community Cloud

60 Why might a business choose a private cloud deployment?

A. Cost efficiency

B. Legal compliance and high-level security

C. Geographical distribution

D. Automation capabilities

61. What does a hybrid cloud allow users to access within a single environment?

A. Only public cloud resources

B. Only private cloud resources

C. Both public and private cloud resources

D. Only community cloud resources

62 What is the primary advantage of a multi-cloud strategy?

- A. Vendor lock-in
- B. Enhanced redundancy
- C. Limited performance optimization
- D. Cost predictability

63. What is Azure Arc, and how does it extend Azure's services?

- A. Azure pricing model
- B. A cloud deployment model
- C. A Microsoft service extending management and services to any infrastructure
- D. A hybrid cloud service

64. What is the Azure service designed for running, managing, and migrating VMware-based workloads in Azure?

- A. Azure Stack
- B. Azure Logic Apps
- C. Azure Batch

D. Azure VMware Solution

65. Which model involves a cloud computing strategy where an organization uses services and resources from multiple cloud providers?

- A. Public Cloud
- B. Private Cloud
- C. Hybrid Cloud
- D. Multi-cloud

66. What does the consumption-based model in cloud computing mean?

- A. Upfront expenses
- B. Pay-as-you-go pricing
- C. Unlimited resources
- D. Fixed costs

67. In cloud computing, what is the main advantage of not having to predict future resource requirements accurately?

- A. Vendor lock-in
- B. Cost predictability
- C. Scalability
- D. Agility

68. Which cloud deployment model allows access to a group of organizations for its services and provides a sharing mechanism?

- A. Public Cloud
- B. Private Cloud
- C. Hybrid Cloud
- D. Community Cloud

69 What is the main advantage of using the consumption-based model in cloud computing?

- A. Upfront expenses
- B. Predictable costs
- C. Pay-as-you-go pricing
- D. Fixed resource allocation

70. In the context of cloud computing, what does elasticity refer to?

- A. Dynamically extending or minimizing network resources
- B. Quick and efficient adaptation to changes in the business environment
- C. Adding more resources to a single server
- D. Predicting future resource requirements

71. What is the main benefit of Azure Virtual Machine regarding resource management?

- A. Fixed resource allocation
- B. Pay-per-usage model
- C. Dynamic scaling up and down
- D. High availability guarantee

72. Which protocol is commonly used to connect to Azure Virtual Machines for Windows-based machines?

- A. Remote Desktop Protocol (RDP)

B. Secure Shell (SSH)

C. Telnet

D. FTP

73. What do Azure Virtual Machine Scale Sets allow you to do?

A. Manage individual VMs manually

B. Create and manage a group of identical load-balanced VMs

C. Automatically adjust VM resources based on demand

D. Limit the number of VM instances to 1000

74. How do Azure Virtual Machine Scale Sets handle fluctuations in demand?

A. By manually adding or removing VM instances

B. By automatically adjusting the number of VM instances

C. By limiting the number of VM instances to a predefined threshold

D. By shutting down VM instances during low-demand periods

75. What is a key feature of Azure Virtual Desktop in terms of management?

- A. Custom monitoring solutions
- B. Centralized security management
- C. Advanced networking configurations
- D. Multi-cloud integration

76. How can organizations reduce costs when using Azure Virtual Desktop?

- A. Pay for Azure resources only
- B. Opt for a monthly subscription model
- C. Utilize Bring Your License (BYOL)
- D. Reduce the number of users accessing virtual desktops

77. Which protocol is used for connecting to another computer through a network connection in Azure Virtual Desktop?

- A. FTP
- B. Telnet
- C. Secure Shell (SSH)

D. Remote Desktop Protocol (RDP)

78. What is a recommended method to connect to Azure Virtual Machines using RDP?

- A. Use a dynamic IP address for flexibility
- B. Download the .rdp file each time before connecting
- C. Use a static IP address to prevent changes
- D. Connect directly using the VM's name

79. What security measure can be activated in Azure Virtual Desktop to fortify user sign-ins?

- A. Single sign-on (SSO)
- B. Multifactor authentication
- C. Role-based access controls (RBAC)
- D. Virtual private network (VPN)

80. What is a unique feature of Azure Virtual Desktop regarding Windows deployment?

- A. Limited application support

- B. Single-session deployment
- C. Multi-session deployment
- D. Compatibility with Windows Server-based operating systems

81. What is the primary advantage of committing to an Azure reserved VM instance?

- A. Immediate VM deployment
- B. Automatic application of reservation discounts
- C. Exclusive access to new VM sizes
- D. Fixed monthly subscription cost

82. What does an Azure reserved VM instance purchase cover specifically for Windows VMs?

- A. Compute and storage costs
- B. Windows server license only
- C. Both Windows server license and compute costs.
- D. Software costs only

83. How can you determine the right VM size before buying a reservation?

- A. Use reservation recommendations and check ConsumedService value
- B. Analyze daily usage data without checking VM sizes
- C. Rely on Meter subcategory and Product fields in usage data
- D. Purchase a reservation first and then determine VM size

84. What is the purpose of the instance size flexibility setting in Azure VM reservations?

- A: Determines the VM size for discounts
- B: Enables discounts only for specific VM series
- C: Controls which services get reserved instance discounts
- D: Adjusts VM flexibility during runtime

85. Which services can benefit from VM reservation discounts according to the instance size flexibility setting being 'on'?

- A. Microsoft. Compute only
- B. Microsoft.ClassicCompute only
- C. Microsoft. Compute, Microsoft. Batch, and more
- D. Microsoft.VirtualMachines

86. What should you avoid when determining the VM size for reservation purchases to ensure correct discounts?

- A. Analyzing daily usage data
- B. Referring to the AdditionalInfo field
- C. Checking Meter subcategory
- D. Using Product fields in usage data

87. Which VM sizes are exceptions where reservation discounts don't apply?

- A. DS-series, ES-series, FS-series
- B. A-series, Av2-series, G-series
- C. HBv2 VMs
- D. D-series, F-series

88. What are the considerations for purchasing Reserved VM Instances regarding insufficient quota?

- A. Quota doesn't affect reservations
- B. Quota should be exceeded for better discounts
- C. Quota must be available for the new reservation
- D. Quota is only applicable to a single subscription scope

89. In which cases can Azure limit the purchase of new reservations due to low capacity in a region?

- A. Only for specific VM series
- B. During the preview or promo period
- C. With insufficient quota
- D. In rare circumstances

90. What roles are required to buy Reserved VM Instances in the Cloud Solution Provider (CSP) program?

- A. Owner role and EA Admin
- B. Admin agents or sales agents

- C. Reader role and service admin
 - D. Contributor role and enterprise admin
91. What are the required steps to buy a Reserved VM Instance in the Azure portal?
- A. All services > Reservations > Add > Virtual machine
 - B. Virtual machines > Add reservation > Select subscription
 - C. Azure portal > Reservations > Add > Compute
 - D. Reservations > Add > Cloud services > Virtual machine
92. What is the significance of the 'Scope' field when purchasing a Reserved VM Instance?
- A. Determines the region covered by the reservation
 - B. Identifies the VM size for the reservation
 - C. Specifies the subscription or resource group scope
 - D. Sets the number of instances for the reservation
93. What does the 'Optimize for' option in the 'Advanced settings' refer to when purchasing a Reserved VM Instance?

- A. Optimizes for cost efficiency
- B. Adjusts VM instance size flexibility
- C. Prioritizes data center capacity
- D. Enables daily usage analysis

94. What are the available terms for purchasing Reserved VM Instances?

- A. One year and two years
- B. Two years and five years
- C. One year, three years, and five years
- D. One year, three years, and ten years

95. How is the quantity determined when purchasing a Reserved VM Instance?

- A. The number of VMs currently running
- B. A fixed quantity set by Microsoft
- C. The subscription quota
- D. It is user-defined based on running VM instances

96. How is the quantity determined when purchasing a Reserved VM Instance?

- A. The number of VMs currently running
- B. A fixed quantity set by Microsoft
- C. The subscription quota
- D. It is user-defined based on running VM instances

97. What can you change after purchasing a Reserved VM Instance without causing a new commercial transaction?

- A. Billing period
- B. Ownership and scope
- C. End date of the reservation
- D. Compute and storage costs

98. What is the purpose of splitting and merging reservations after purchase?

- A. To create new commercial transactions
- B. To change the end date of the reservation

- C. To adjust ownership and scope
- D. To optimize billing and discount distribution

99. Which field in the usage file or usage API provides correct information about VM size for reservation purchase?

- A. Meter subcategory
- B. Product fields
- C. additionalinfo
- D. ConsumedService

100. For which type of subscription is the Add More option available when buying Reserved VM Instances?

- A. Enterprise Agreement (EA)
- B. Pay-as-you-go with monetary commitment
- C. Cloud Solution Provider (CSP)
- D. Microsoft Customer Agreement (MCA)

101. What is the primary focus of the three basic concepts of fiscal conversation mentioned in the article?

- A. Employee satisfaction
- B. Customer engagement
- C. Revenue, Cost, and Profit
- D. Product innovation

102. What does a profit outcome in fiscal conversation signify?

- A. High risk and failure
- B. Increase in revenue and decrease in costs
- C. Decrease in revenue and increase in costs
- D. Status quo in financial terms

103. Why are the examples provided in the article labeled as hypothetical?

- A. To guarantee returns
- B. To prevent roadblocks
- C. Due to their innovative nature
- D. To emphasize the cloud strategy's uniqueness

104. What is the significance of partnering with a proven innovator when proposing new revenue streams prone to failure?

- A. Avoiding revenue increases
- B. Adding credibility to proposed outcomes
- C. Encouraging resistance
- D. Preventing fiscal transformation

105. In the context of fiscal outcomes, what do new revenue streams represent?

- A. Reduction in existing products
- B. Low-risk opportunities
- C. High-risk ventures
- D. Opportunities to deliver products differently

106. How can cloud computing contribute to revenue increases for existing products?

- A. Through cost avoidance

- B. By reducing capital expenses
- C. Via global scale and digital reach
- D. By avoiding data center shutdown

107. What is the outcome when cloud computing helps reduce capital expenses for hardware and software?

- A. New revenue streams¹⁵⁷
- B. Cost avoidance
- C. Profit increases
- D. Cost reduction

108. In fiscal terms, what is the focus of cost avoidance?

- A. Reducing current budget commitments
- B. Preventing future refresh cycles
- C. Increasing server capacity
- D. Ongoing operational costs

109. What is the primary difference between capital expenses and operating expenses in the context of fiscal conversation?

- A. Capital expenses are ongoing costs, and operating expenses are long-term investments.
- B. Capital expenses contribute to a particular purpose, and operating expenses generate benefits over a long period.
- C. Capital expenses are non-recurring, and operating expenses are recurring costs.
- D. Capital expenses are assets, and operating expenses are liabilities.

110. How does the article describe Sentara Healthcare's fiscal outcome after moving its data to Azure?

- A. Guaranteed profit
- B. Hypothetical and high-risk
- C. Record cost savings
- D. Minimal impact on IT team costs

111. What does Azure Virtual Network enable regarding networking environments?

- A. Integration with public IP addresses
- B. Creation of isolated virtual networks
- C. Internet profitability for IP address spaces
- D. Exclusive use of private IP addresses

112 How is granularity achieved in Azure Virtual Network regarding IP address spaces?

- A. Public IP address ranges
- B. Private IP address ranges
- C. Subnet division
- D. External DNS configuration

113. What is the purpose of assigning a public IP address to an Azure resource or using a public load balancer?

- A. Isolation of resources
- B. Incorporating Internet connections
- C. Enabling secure communication

D. Enhancing internal DNS configuration

114. How can secure communication between Azure resources be achieved, according to the article?

- A. Through external DNS servers
- B. By using private IP addresses
- C. Via virtual networks and service endpoints
- D. By isolating resources within subnets

115. What are the three mechanisms that Azure Virtual Networks support for communication with on-premises resources?

- A. Internal DNS, VPN, and BGP
- B. Subnets, Site-to-Site VPN, and Point-to-Site VPN
- C. ExpressRoute, DNS resolution, and Route Tables
- D. Point-to-Site VPN, Site-to-Site VPN, and Azure ExpressRoute

116. What is the primary function of Route Tables in Azure Virtual Networks?

- A. Filtering network traffic
- B. Establishing internet connections
- C. Defining rules for traffic direction
- D. Configuring internal DNS servers

117. What Azure resource contains inbound and outbound security rules, allowing the definition of rules based on factors like source/destination IP address, port, and protocol?

- A. VPN Gateway
- B. Network Security Groups
- C. Virtual Cross-Connection
- D. Network Virtual Appliances

118. What does Virtual Network Peering enable in Azure?

- A. Direct connection between Azure and on-premises networks

- B. Private network traffic over the public internet
- C. Secure communication between subnets
- D. Global interconnection of Azure resources

119. What is the main purpose of a VPN gateway in Azure?

- A. Securely connect Azure resources to the public internet
- B. Establish private and secure connections between Azure and on-premises environments
- C. Provide high-speed internet connectivity to Azure VMs
- D. Facilitate communication between Azure Virtual Networks

120. What is the significance of the "Gateway Type" in VPN Gateway configuration?

- A. It determines the Azure region.
- B. It specifies the hardware used for the gateway.
- C. It defines how the gateway will function.
- D. It selects the VPN encryption method.

121. In a RouteBased VPN Gateway, what is its primary characteristic regarding traffic routing?

- A. Static routing
- B. Dynamic routing
- C. Policy-based routing
- D. Encrypted routing

122. What is the purpose of PolicyBased VPN in Azure?

- A. Efficient traffic routing
- B. Avoiding overlapping subnets
- C. Facilitating dynamic routing
- D. Ensuring encrypted connections

123. What is the default configuration for VPN gateways concerning resiliency?

- A. Active/Standby
- B. Active/Active with BGP support
- C. ExpressRoute Failover

D. Zone-Redundant

124. What is the purpose of ExpressRoute Failover with a VPN gateway in Azure?

- A. Enhance global connectivity
- B. Provide additional bandwidth
- C. Ensure continuous connectivity during ExpressRoute outages
- D. Facilitate VPN connectivity to on-premises resources

125. In regions supporting availability zones, how are VPN gateways deployed for enhanced resiliency?

- A. Active/Standby
- B. Active/Active with BGP support
- C. ExpressRoute Failover
- D. Zone-Redundant configuration

126. What does Azure ExpressRoute provide in terms of network connectivity?

- A. Dedicated private connection to Microsoft Cloud
- B. Secure internet connectivity

- C. Public internet routes for data transfer
- D. Dynamic IP addressing for on-premises networks

127. What is the role of ExpressRoute Global Reach in connectivity?

- A. Enhancing global security
- B. Direct communication between on-premises sites
- C. Providing dynamic routing with BGP
- D. Ensuring redundancy for ExpressRoute

128. What dynamic routing protocol does ExpressRoute use for efficient traffic routing?

- A. VPN
- B. DNS
- C. BGP (Border Gateway Protocol)
- D. HTTP

129. Which connectivity model is described as treating Azure as one of the branch offices in an IPVPN network?

- A. Any-to-Any (IPVPN) Networks
- B. Virtual Cross-Connection
- C. Point-to-Point Ethernet Connection
- D. Layer 3 Connectivity

130. What is the primary advantage of co-locating a facility at a cloud exchange with ExpressRoute?

- A. Increased internet speed
- B. Enhanced security through encryption
- C. Efficient public internet connectivity
- D. Establishing a virtual cross-connect to the Microsoft cloud

131. What is the primary focus of Azure Cosmos DB, as mentioned in the article?

- A. Gaming applications
- B. Web development
- C. AI-powered applications
- D. IoT solutions

132. Which operational data models does Azure Cosmos DB support?

- A. Relational and document only
- B. Relational, document, vector, key-value, graph, and table
- C. NoSQL and MongoDB only
- D. Table and PostgreSQL only

133. What key benefit does Azure Cosmos DB offer for app development?

- A. Low latency and high availability
- B. Single-digit millisecond response times
- C. Automatic management and updates
- D. Turnkey multi-region data distribution

134. Which feature enables guaranteed speed at any scale in Azure Cosmos DB?

- A. Automatic scaling

- B. Real-time access
- C. Fast global access
- D. Serverless model

135. How does Azure Cosmos DB achieve multi-region writes and data distribution?

- A. By using PostgreSQL
- B. By leveraging Azure AI Services
- C. By pressing a button
- D. Through manual configuration

136. Which Azure services are deeply integrated with Azure Cosmos DB for modern app development?

- A. Azure SQL Database
- B. Azure Functions, IoT Hub, AKS, App Service
- C. Azure DevOps, Azure Monitor, Azure Logic Apps
- D. Azure Blob Storage, Azure Queue Storage

137. What is the primary advantage of using Azure Cosmos DB for IoT and telematics applications?

- A. High throughput
- B. Low latency
- C. Guaranteed speed
- D. Multi-region writes

138. Which of the following is not mentioned as one of the Azure Cosmos DB's key benefits?

- A. Serverless model
- B. Real-time access
- C. Unlimited scale worldwide
- D. Manual patching and updates

139. What is the purpose of the Azure AI Advantage offer mentioned in the article?

- A. Free trial for Azure Cosmos DB with 40,000 RU/s throughput

- B. Discounts for existing Azure AI or GitHub Copilot customers
- C. A lifetime free tier for Azure Cosmos DB
- D. 30-day Free Trial for non-Azure customers

140. What does the term "RU/s" stand for in the context of Azure Cosmos DB?

- A. Real-time Units per Second
- B. Requested Units per Second
- C. Readability Units per Second
- D. Reliable Units per Second

141. What is the lifetime free tier offering for Azure Cosmos DB?

- A. 40,000 RU/s for 90 days
- B. 30-day Free Trial without Azure subscription
- C. 1000 RU/s and 25 GB storage for free
- D. Serverless and automatic scaling options

142. Which feature makes it easy to track and manage changes to database containers in Azure Cosmos DB?

- A. Real-time access
- B. Change feed
- C. Automatic scaling
- D. Multi-region writes

143. What does the "schema-less service" in Azure Cosmos DB automatically index?

- A. Only document data
- B. Only relational data
- C. All data, regardless of the data model
- D. Only key-value data

144. What is the cost-effective model in Azure Cosmos DB for unpredictable or sporadic workloads?

- A. Automatic scaling
- B. Serverless model
- C. Capacity planning

D. Manual scaling

145. What does the "30-day Free Trial" without an Azure subscription offer to users?

- A. 40,000 RU/s throughput for 30 days
- B. Free access to Azure Cosmos DB for 30 days
- C. 30 days of unlimited storage
- D. 30 days of automatic scaling
- E. Enforcing naming.

146. What is the purpose of Azure Cosmos DB Live TV sessions every Thursday at 1 PM Pacific?

- A. Free training on Azure Cosmos DB
- B. Troubleshooting sessions
- C. Live coding sessions
- D. Learning more about Azure Cosmos DB

147. Which Azure Cosmos DB functionality is mentioned for seamless integration with Azure AI Services?

- A. Automatic scaling
- B. Turnkey multi-region data distribution
- C. Native vector search
- D. Real-time access

148. What does the Azure Cosmos DB "Change feed" feature facilitate?

- A. Automatic database backups
- B. Real-time access with low latencies
- C. Tracking and managing changes to database containers
- D. Schema-based data indexing

149. What is the primary goal of integrating Azure Cosmos DB with Azure AI Services?

- A. Enhanced serverless model
- B. Improved change feed functionality
- C. Seamless integration with Azure AI Services
- D. Cost-effective scaling options

150. Which key benefit does Azure Cosmos DB provide for application development?

- A. Automatic backup scheduling
- B. Single-region data distribution
- C. Schema-based data modeling
- D. Open-source APIs and multiple SDKs

151. What is the purpose of the Control node in Synapse SQL's dedicated SQL pool architecture?

- A. Manage data storage
- B. Execute parallel queries
- C. Coordinate data movements
- D. Distribute compute power

152. What is the role of the Compute nodes in Synapse SQL's dedicated SQL pool architecture?

- A. Distributing data across Azure Storage

- B. Executing parallel queries and providing computational power
- C. Managing data-sharding patterns
- D. Coordinating data movements

153. Which technology coordinates data movement between Compute nodes in Synapse SQL?

- A. Control node
- B. Azure Storage
- C. Data Movement Service (DMS)
- D. Distributed query engine

154. What is the basic unit of storage and processing for parallel queries in Synapse SQL?

- A. Control node
- B. Compute node
- C. Distribution
- D. Data Movement Service (DMS)

155. How can you independently size compute power in Synapse SQL's dedicated SQL pool?

- A. By resizing Azure Storage
- B. By choosing a sharding pattern
- C. Independently of your storage needs
- D. By increasing Data Movement Service (DMS) capacity

156. What is the purpose of the Data Movement Service (DMS) in Synapse SQL?

- A. Execute T-SQL commands
- B. Coordinate data movement between Compute nodes
- C. Manage Azure Storage
- D. Distribute compute power

157. Which table distribution strategy provides the highest query performance for joins and aggregations on large tables in Synapse SQL?

- A. Round-robin
- B. Replicated

C. Hash-distributed

D. Sharded

158. When is a round-robin distributed table suitable for optimal performance in Synapse SQL?

A. Always

B. For small tables and fast data loading

C. For hash-based queries

D. For caching purposes

159. What does a replicated table do in Synapse SQL?

A. Distributes data evenly

B. Provides fast query performance for small tables

C. Executes parallel queries

D. Coordinates data movements

160. Which sharding patterns are supported for distributions in Synapse SQL's dedicated SQL pool?

- A. Hash, Round Robin, and Replicate
- B. Linear, Circular, and Spiral
- C. Random, Sequential, and Weighted
- D. Redundant, Balanced, and Dynamic

161. What is the Internet of Things (IoT)?

- A. A cloud hosting service
- B. A network of physical devices exchanging data
- C. A machine learning framework
- D. A programming language

162. What is Azure IoT Hub, and what role does it play in IoT applications?

- A. A cloud-based sensor service
- B. An authentication service for IoT devices
- C. A central message hub for IoT communication
- D. An IoT device manufacturing platform

163. How many connected devices can Azure IoT Hub support simultaneously?

A. Thousands

B. Millions

C. Hundreds

D. Billions

164. Which messaging patterns are supported by IoT Hub?

A. Cloud-to-device telemetry only

B. Device-to-cloud telemetry, file uploads, and request-reply methods

C. Cloud-to-cloud communication only

D. Device-to-device communication

165. What is the purpose of IoT Hub monitoring?

A. Tracking device creation

B. Monitoring backend solutions

C. Identifying device failures

D. All of the above

166. Which Azure service can be integrated with IoT Hub for quick reactions to critical events?

A. Azure Machine Learning

B. Azure Event Grid

C. Azure Logic Apps

D. Azure Stream Analytics

167. What are the characteristics of IoT devices compared to other clients?

A. Always have a human operator

B. Require constant physical access

C. Can be embedded, have limited power, and might have intermittent connectivity

D. Use standard application protocols

168. What is the identity registry in IoT Hub used for?

A. Storing device telemetry

- B. Managing device modules
- C. Storing information about devices and modules
- D. Authenticating cloud applications

169 Which authentication methods are supported for device-to-IoT Hub communication?

- A. JWT token-based authentication
- B. OAuth-based authentication
- C. SAS token-based and X.509 certificate authentication
- D. API key-based authentication

170. What is the purpose of the IoT Hub Device Provisioning Service?

- A. Authenticating devices
- B. Scaling device communication
- C. Setting up and provisioning many devices at a time
- D. Monitoring device telemetry

171. How is the internet connection between IoT devices and IoT Hub secured?

- A. Using a proprietary encryption method
- B. Using OAuth 2.0
- C. Utilizing Transport Layer Security (TLS)
- D. Employing device-specific encryption keys

172. Which versions of TLS does Azure IoT support for communication with IoT Hub?

- A. TLS 1.3 only
- B. TLS 1.2, TLS 1.1, and TLS 1.0
- C. TLS 2.0 only
- D. TLS 1.1 and TLS 1.0 only

173. What types of communication are possible between IoT devices and backend services?

- A. Only telemetry from sensors
- B. Telemetry, file uploads, and request-reply methods
- C. Only cloud-to-cloud communication

D. Device-to-device communication

174. What is the purpose of device telemetry in IoT applications?

- A. Sending commands to devices
- B. Tracking device creation
- C. Monitoring device health and receiving sensor data
- D. Authenticating devices

175. What are examples of telemetry received from IoT devices?

- A. Web pages and images
- B. SQL database queries
- C. Sensor data, error messages, and information messages
- D. Device commands and properties

176. How are IoT device properties used in IoT Hub?

- A. For storing device telemetry
- B. As a part of device authentication
- C. To send notifications when actions have been completed

D. Only for device provisioning

177. What are IoT Device Twins and Plug and Play used for in IoT Hub?

- A. Device authentication
- B. Telemetry encryption
- C. Enabling device properties
- D. Setting up device provisioning

178. What is the purpose of IoT Hub Device Commands?

- A. Sending telemetry from devices to the cloud
- B. Executing direct methods on devices
- C. Authenticating devices
- D. Storing device properties

179. How does IoT Hub unlock the value of device data with other Azure services?

- A. By storing all data within the IoT Hub
- B. By sending device data to Azure Machine Learning

C. By integrating with Azure services for machine learning, analytics, and AI

D. By routing all data to a central endpoint

180. What is the default built-in endpoint in IoT Hub used for?

A. Storing telemetry permanently

B. Initiating device twin updates

C. Collecting device data by default

D. Executing direct methods

181. What is the purpose of Azure Machine Learning Designer?

A. To write code for ML models

B. To train ML models without writing code

C. To deploy ML models automatically

D. To visualize ML data

182. What is the benefit of Automated machine learning UI?

- A. It allows for manual optimization of hyperparameters
- B. It automates the process of training ML models
- C. It provides advanced visualization tools for ML data
- D. It enables direct integration with Azure services

183. What is the purpose of Data labeling in Machine Learning?

- A. To preprocess data before training models
- B. To efficiently coordinate image or text labeling projects
- C. To optimize hyperparameters in ML models
- D. To visualize the performance metrics of ML models

184. Which Azure service can be used to save security secrets for ML projects?

- A. Azure Storage
- B. Azure Key Vault
- C. Azure Event Grid

D. Azure Synapse Analytics

185. What is the purpose of Azure Synapse Analytics in ML projects?

- A. To process and stream data with Spark
- B. To automate ML model training
- C. To visualize ML data metrics
- D. To manage ML experiments

186. Which stage of the machine learning project lifecycle involves automating users' work in an ML pipeline?

- A. Model Deployment
- B. Data labeling
- C. Model training
- D. Project operationalization

187. What types of models can be brought into Azure Machine Learning for operationalization?

- A. Only models trained in Azure ML Studio

- B. Only models built from scratch in Azure ML
- C. Models trained in open-source frameworks like PyTorch and TensorFlow
- D. Models built using Azure Machine Learning Designer only

188. What is the purpose of Automated ML (AutoML) in Azure Machine Learning?

- A. To optimize hyperparameters manually
- B. To speed up the process of selecting data featurization and algorithms
- C. To visualize ML data
- D. To deploy ML models to production

189. Which Azure service enables multi-node distributed training for deep learning jobs?

- A. Azure Event Grid
- B. Azure Container Registry
- C. Azure Synapse Analytics
- D. Azure Machine Learning compute clusters

190. What is the purpose of Real-time and batch scoring (inferencing) in ML projects?

- A. To visualize model performance metrics
- B. To train ML models with new data
- C. To automate model deployment
- D. To obtain predictions from trained models in real-time or batch mode

191. What does the NIST CSF (Cybersecurity Framework) aim to achieve?

- A. Establish additional regulatory requirements
- B. Maintain measurement standards and guidance
- C. Enforce cybersecurity policies on private sector organizations
- D. Focus exclusively on government cybersecurity

192. What was the main priority of the Framework for Improving Critical Infrastructure Cybersecurity (FICIC)?

- A. Imposing regulatory requirements

- B. Enabling business efficiency
- C. Restricting government cybersecurity
- D. Standardizing global cybersecurity practices

193. Which standards are referenced in the FICIC framework, and what are they mapped to in NIST SP 800-53?

- A. ISO 27001, mapped to FedRAMP High Baseline
- B. NIST SP 800-53, mapped to FedRAMP Moderate Baseline
- C. GDPR, mapped to HIPAA requirements
- D. CIS Controls, mapped to PCI DSS

194. How long is the NIST CSF certification of Office 365 valid?

- A. One year
- B. Two years
- C. Three years
- D. Indefinitely

195. Which independent organization provided the NIST CSF letter of certification for Office 365?

- A. NIST
- B. FedRAMP
- C. ISO
- D. HITRUST

196. How can Microsoft demonstrate compliance with the NIST Framework for Improving Critical Infrastructure Cybersecurity?

- A. Through internal audits only
- B. By obtaining FedRAMP accreditation
- C. By participating in FICIC on a voluntary basis
- D. By excluding non-compliant services from the offering

197. What does Microsoft's participation in the FICIC involve?

- A. Mandatory regulatory compliance
- B. Voluntary participation

C. Exclusively for government organizations

D. Direct integration with NIST SP 800-53

198. Who is responsible for ensuring compliance with all applicable laws and regulations according to the provided information?

A. Microsoft

B. HITRUST

C. United States Government

D. Respective organizations

199. Why might some Office 365 services not be in the scope of NIST CSF certification?

A. Lack of demand from customers

B. Limited market availability

C. Regulatory restrictions

D. Continuous expansion of compliance offerings

200. What is the purpose of Microsoft Purview Compliance Manager in relation to NIST CSF?

- A. To enforce regulatory requirements
- B. To build ML models for compliance
- C. To assess an organization's compliance posture
- D. To replace NIST CSF certification

201. The Software Architect of an organization is responsible for managing and developing the Azure resources, such as Virtual Machine (VM) on Android OS/Linux. Due to the wide responsibilities, the Software Architect wants an automated and authenticated management tool to configure the VM.

Which of the following can Software Architect use to configure a VM?

- A. Azure CLI
- B. Microsoft PowerApps
- C. Azure Cloud Shell
- D. Azure Power Shell

202. Which statement is valid for the Software as a Service (SaaS) model?

- A. You are responsible for configuring the solution

- B. You are responsible for the high availability of the solution
- C. You are responsible for deploying the solution
- D. You are responsible for the scalability of the solution

203. Harry, an App developer, is working with Azure services. He is planning to build a real-time application that enables event-based reactive programming. Which of the following Azure service helps implement this type of application?

- A. Azure Kubernetes
- B. Azure Event Grid
- C. Azure DevTest Labs
- D. Azure DevOps

204. An organization is recently shifting its resources from on-premises to Azure. The organisation's owner needs to give business justification for this migration, showing the expenses of "Software Licensing" as a part of the justification. Which of the following category includes this type of expense?

- A. Capital Expenditure
- B. Secondary Expenditure
- C. Operating Expenditure

D. Primary Expenditure

05. Mark is an IT Engineer using Azure resources. He deploys an Azure Virtual Machine with the following set of configuration details. The Premium disk sized 128 GB is attached to the deployed machine.

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with 'Microsoft Azure', a search bar, and a user profile icon. Below the bar, the path '... > ips-vm' is shown. The main area displays the properties of a 'Virtual machine' named 'ips-vm'. The properties are listed in a table format:

Resource group (change)	Azure Spot
ips	N/A
Status	Public IP address
Running	20.36.46.60
Location	Private IP address
Australia Central	10.0.0.4
Subscription (change)	Public IP address (IPv6)
Pay-As-You-Go	-
Subscription ID	Private IP address (IPv6)
797152d3-23c4-499f-bfef-bb103da7d054	-
Computer name (not available)	Virtual network/subnet
Operating system	Whiz-vnet/default
Windows	DNS name
Size	Configure
Standard DS1 v2 (1 vcpus, 3.5 GiB memory)	Scale Set
	N/A

The Premium SSD disk with a size of 127 GiB is attached to the VM, as shown in the figure.

The screenshot shows the Microsoft Azure interface for managing disks. The top navigation bar includes 'Microsoft Azure', a search icon, and a user profile icon. Below the navigation, the breadcrumb path is 'Home > Disks > ips-vm_DataDisk_1'. The main content area displays a single disk entry:

Resource group (change)	Disk Configuration
Ips	127 GiB (Premium SSD)
Disk state	Owner VM
Attached	ips-vm
Location	Operating system
Australia Central	---
Subscription (change)	Availability zone
Pay-As-You-Go	None

The 'Disk Configuration' row is highlighted with a red box.

The deployed machine is in the “Stopped (Deallocated)” state. Would he still be charged for the disk attached to the machine?

A. Yes

B. No

06. A company plans to design a secure network and share the application secrets with a third party without revealing the actual secret. Which of the following Azure services is used for the sharing of secrets?

A. Azure Network Security Group

B. Azure DDoS Protection

C. Azure Key Vault

D. Azure Multi-Factor Authentication

:07. An organization starts using Azure resources and has a pay-as-you-go subscription. The organization has a private cloud model for sensitive and critical applications. The organization wants to implement a hybrid cloud infrastructure for some purpose. Would they need to shift their private cloud model into a hybrid one?

A. Yes

B. No

:08. Olivia is working on cloud services and finds some benefits in this regard. Which of the following is best suited for the given statement?

“The users with the minimum time can access all Cloud services”.

A. Low Latency

B. Dynamic Scalability

C. Fault Tolerance

D. Disaster Recovery

:09. The owner of a company calls a meeting to find the solution to the given scenario:

"There is a web server that receives consecutive requests from different sources simultaneously; these continuous requests stop the server from working abruptly". One of their employees suggested using the Azure Information Protection service. Is this suggestion helpful for the given scenario?

A. Yes

B. No

10. An IT company deploys many Azure Virtual Machines. Before deployment, an Account Administrator implemented a manual draft of the cost that is incurred for these VMs. Which of the following Azure services recommend reducing the cost of these VMs?

A. Cost Management + Billing

B. Virtual Machines

C. Help + Support

D. Advisor

11. An IT Engineer implements a set of Virtual Machines (VMs) on which critical application is installed. To ensure the availability of the application 99.99% of the time and protection of the application from any data center failure, they decide to implement a set of VMs in

more than one availability zone. Would this approach help improve the performance of an application?

A. Yes

B. No

12. An organization found issues in their Azure resource using Azure Service Health. Would an IT Admin be able to use Azure Service Health to create some rules that protect their Azure resources from issues?

A. Yes

B. No

13. Access protection is crucial when data is stored on the company's server. For this, a company plans to study the use of the Azure Information Protection service. Which of the following is Azure Information Protection service used for?

A. Documents and Email Messages

B. Network Traffic

C. Azure Storage Accounts

D. Microsoft Entra ID Identities

14. Frankel is a Data Engineer in an IT company. The company uses Azure resources for its pay-as-you-go Azure subscription. He deploys Azure Cosmos DB. Would he need to manage the index of data whenever he stores data in Azure Cosmos DB?

A. Yes

B. No

15. Marc is an IT Engineer in an organization. He developed an Azure Resource Group named “Ips” with the following resources.

<input type="checkbox"/> Name ↑↓	Type ↑↓	Resource group ↑↓
<input type="checkbox"/>  cisco123	Storage account	Ips
<input type="checkbox"/>  cisco1234.com	DNS zone	Ips
<input type="checkbox"/>  cisco12346.com	DNS zone	Ips
<input type="checkbox"/>  csb797152d323c4x...	Storage account	cloud-shell-storage-w...
<input type="checkbox"/>  ips-vm	Virtual machine	Ips

Currently, a complex application is running on the “ips-vm”, a virtual machine in “Ips”. The company makes a policy that “ips-vm” is not an allowed resource type of resource group “Ips”. What would happen when the company assigns this policy to the resource group “Ips”?

A. The network is moved to the different resource group

- B. The network is automatically deleted
- C. The virtual machine would continue to exist as it is
- D. The network resources would become a read-only resource

16. An IT company wants to deploy a set of Virtual Machines (VMs) on which sensitive data application is installed. The IT Engineer implements the same set of VMs in different Azure regions to improve the application performance and availability. Would the approach of using multiple regions help improve availability?

- A. Yes
- B. No

17. An organization assigns a task to the Resource Manager to implement the service alerts highlighting the issues in Azure services. Would Azure Service Health be used for creating the service health alerts?

- A. Yes
- B. No

18. Mark is a Data Engineer in an organization using Azure resources and services due to its big data-wide response

services. Mark wants to find the solution for the following requirements:

“Provide a solution to perform big data analytics of data stored on Azure blob storage”. Which service is used as a solution for the given requirement?

- A. Azure Storage Accounts
 - B. Azure SQL Data Warehouse
 - C. Azure Data Lake Storage
 - D. Azure Application Gateway
- |19. An IT Engineer of an organization creates an Azure Cosmos DB due to its multiple data stores and continuous availability capabilities. Would the IT Engineer be able to deploy custom software using Azure Cosmos DB?
- A. Yes
 - B. No
- |20. An IT company uses Azure resources and has several Azure storage accounts for data storage. One of the employees deploys a web application that stores user profile information. The company decides to use table storage for storing the user profile information. Would the decision of the company be correct?

A. Yes

B. No

21. An organization wants to create a set of Virtual Machines (VM) on which a complex application is installed. The Network Engineer wants to ensure an application's availability even if one of the data centers goes down. They use Azure virtual machine scale sets to ensure the application's availability in the availability zone. Would this Azure service help to increase the VM instance for high availability?

A. Yes

B. No

22. A company is using Azure resources, and one of the implemented Azure VM went down due to some incident. An IT Admin wants to find the incident in their Azure Virtual Machine named "ips-vm". Would Azure Service Health be used to highlight the issues in Azure Virtual Machine "ips-vm"?

A. Yes

B. No

23. Johnny is a Data Engineer in an organization. The organization wants to set up a solution that stores petabytes of data and can run queries on relational and non-relational data. Which Azure service can be used to meet the organisation's requirements?

- A. Azure Storage Accounts
- B. Azure Synapse
- C. Azure Firewall
- D. Azure Application Gateway

24. An organization is using Azure Cosmos DB for its database requirement. Does Azure Cosmos DB provide the functionality of a multi-model database?

- A. Yes
- B. No

25. An organization has a different storage account to store data in Azure. The IT Engineer of the organization implemented an application that required user-related information. They use a File storage service to store user-related information on Azure. Is their decision correct?

- A. Yes

B. No

26. A networking company implemented a network using Azure resources on which complex and sensitive applications are running. A Security Engineer is tasked with protecting the application's secret when applications are running. Which Azure service can be used in the given situation?
- A. Azure Storage Account
 - B. Azure Identity Protection
 - C. Microsoft Defender for Cloud
 - D. Azure Key Vault
27. An organization wants to implement a network on which multiple applications are running. An IT Engineer of the organization wants to highlight the impact of the availability zone. Could an availability zone be used to reproduce data in multiple regions?
- A. Yes
 - B. No
28. An organization creates a network with different Azure resources and services. A web application is installed on the VMs. A network must be able to store data that the user over the internet can access. Which of the following

Azure services is responsible for providing the given demand?

- A. Azure Storage Accounts
 - B. Azure Application Gateway
 - C. Azure SQL Data Warehouse
 - D. Azure Data Lake Storage
- |29. An IT company is using Azure resources. The company has a Windows Server license as a part of a Software Assurance agreement. Would the company benefit from deploying the Azure Virtual Machines?
- A. Yes
 - B. No
- |30. An organization chooses Azure services to run an application. This application requires the profile information of the user. The organization decides to use an Azure storage account for data storage and Azure blob storage for user profiles. Would this storage option be valid for storing the user profile information?
- A. Yes
 - B. No

31. An organization is using Azure resources for its pay-as-you-go subscription. There are multiple Azure customers associated with an organization. An IT Admin needs to monitor the record that shows the actions done on resources in the last 24 hours. Which of the following Azure services will help an IT Admin to find the changes done by the customer in particular Azure resources?

- A. Azure Activity Logs
- B. Azure Advisor
- C. Azure Service Health
- D. Azure Event Hubs

32. An organization wants to create a network with Linux and Windows-based Virtual Machines. The organization deployed machines in different availability zones to ensure high availability. Is it possible to have multiple availability zones for both Linux and Windows-based Virtual Machines?

- A. Yes
- B. No

33. A company wants to find out the Azure solution for the given situation.

“Enables the balancing of web traffic to manage the web applications using an HTTP request.”. Which of the following Azure services will provide the best solution?

- A. Azure Application Gateway
- B. Azure Data Lake Storage
- C. Azure SQL Data Warehouse
- D. Azure Storage Accounts

34. An organization is shifting all on-premises resources to Azure. To migrate the on-premises SQL server 2005 database to Azure SQL Database, the organization decides to use Azure Database Migration Service. Would their decision be correct for the database migration?

- A. Yes
- B. No

35. An organization decides to implement a network with two virtual machines. The machines host web applications, and users can access these applications via the internet. Would it be possible to use Azure virtual machine scale sets service to ensure the availability of applications?

- A. Yes

B. No

36. A company wants to deploy an Azure solution platform that serves as an online place for buying and selling the product, application, and solution discovered for a cloud solution. What helps the company view the available products and allows the company to search for the resource?

A. In Azure Monitor

B. In Microsoft Defender for Cloud

C. In the Azure Marketplace

D. In Azure Advisor

37. James is a Data Engineer in an organization. The organization has a pay-as-you-go subscription. They created a Virtual Network (VNet) in Azure, linked on-premises using a virtual private network connection. James prepared a report that contains the worth of data transfer from the Azure cloud to the on-premises network. The worth is about 20GB per month. Would an organization need to pay additional charges for this outbound data transfer?

A. Yes

B. No

38. A new Azure user logs in to the Azure portal and deploys the following Azure resources:

- Azure Kubernetes
- Azure Storage Account

The creation of Azure Storage Account belongs to which one of the following deployment models?

- A. Platform as a Service
- B. Software as a Service
- C. Hardware as a Service
- D. Infrastructure as a Service

39. Alexander is an Account Administrator in an organization. The organization is using Azure resources and has a pay-as-you-go subscription. Alexander designs rules and regulations for the organization. One of the rules is that the Azure virtual machine must be deployed on a separate network portion. Which of the following is used to fulfill this rule?

- A. A separate account for the server
- B. A separate resource group
- C. A separate network interface for the server
- D. A separate virtual network

40. An organization is running critical applications with sensitive data. A security engineer wants to monitor anything impacting the application performance and create troubleshooting alerts. Which of the following services is used for monitoring the app availability?

- A. Microsoft Entra ID
- B. Azure Advisor
- C. Microsoft Defender for Cloud
- D. Azure Monitor

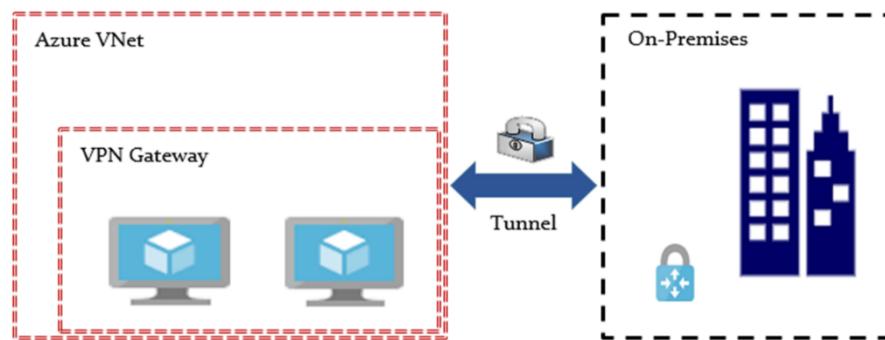
41. Jacobs is a Software Engineer in an IT Company. He implemented a web application that is running on two Azure Virtual Machines. Users can access this application via the internet. For a large number of users, he decides to add a load balancer to ensure the availability of the application. Is his decision correct?

- A. Yes
- B. No

42. An organization decides to start using Azure. To try the Azure service and resources, an organization created an Azure Free Account. Which statements are true regarding the use of Azure Free Account? Choose two options from the given:

- A. You get USD 200 worth of credit that you can spend during the first 30 days of sign-up
- B. You only need to have a valid mobile number to sign up for the account
- C. You get free access to all services for 12 months.
- D. After the 30 days of USD 200 worth of credit, you need to convert to a Pay-As-You-Go Account for continuous usage.

43. Mark is a Software Architect in an organization. He configures a hybrid cloud infrastructure, as shown in the given figure. The organization is using Azure resources for its Azure subscription. Mark wants to transfer big data (gigabytes) from an on-premises network to an Azure cloud using a VPN gateway. Would the organization need to pay extra charges for this transfer of data?



- A. Yes
- B. No

44. A newly established company created the following resources using a pay-as-you-go Azure subscription.

- Azure Kubernetes
- Azure Storage Account

The Azure Kubernetes service belongs to which of the following deployment models?

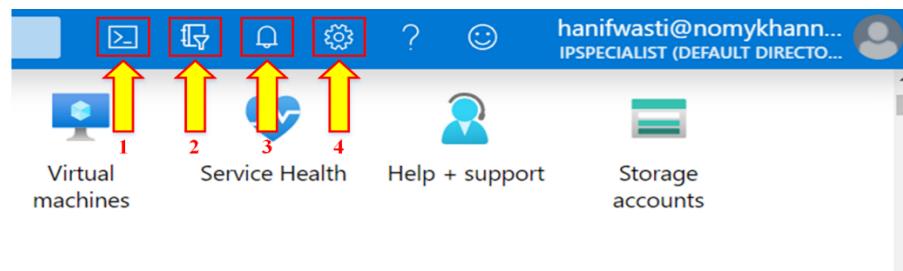
- A. Hardware as a Service
- B. Infrastructure as a Service
- C. Platform as a Service
- D. Software as a Service

45. An organization is going to plan a project using Azure tools. The project must fulfill the following requirement:

“Ability to instantly redirect the user request even if the network component fails”. Which of the following features is best suited for the defined statement?

- A. Low Latency
- B. Dynamic Scalability
- C. Disaster Recovery
- D. High Availability

46. A company is using Azure resources. One of its customers deployed an Azure Virtual Machine named "ips-vm". After the process of configuration details, which of the following options declares the confirmation of deployment?



- A. Using Link 4
- B. Using Link 3
- C. Using Link 2
- D. Using Link 1

47. A company has deployed two Azure Virtual Machines on which a web application runs. The users can access this application from the internet. Could a VPN gateway be used to ensure an application's high availability?

- A. Yes
- B. No

48. A company has a pay-as-you-go subscription and has built different resources in its Azure account. They want

to be informed about the charges, cost reduction in Azure resources, and optimization of resources. How can the company achieve such a system that provides visibility of cost incurred to Azure resources?

- A. Create an alert in Azure Advisor
- B. Create an alert in Azure Monitor
- C. Create a cost tag for the resource group
- D. Create a budget in Azure Cost Management

49. An IT Company has started using Azure services for their Azure subscription, creating different resource groups. Various resources have been created for several company departments within each resource group. Would the company need to give additional charges for creating multiple resource groups in Azure?

- A. Yes
- B. No

50. An organization has an Azure subscription. Several users and customers are associated with this organization and use Azure resources. Is it possible to manage the organization's guest list from Business to Customer "B2C" feature of Azure AD service?

- A. Yes

B. No

51. A company plans to adopt a feature that ensures network availability even in sudden damage. Which of the following features is best suited for the given statement?

“Ensure to protect the network prevent from disastrous damage.”

A. Fault Tolerance

B. Low Latency

C. Disaster Recovery

D. Dynamic Scalability

52. Alex is working as an IT Engineer for an organization. With his team, he decides to implement the package for the implementation of Azure service. For the implementation, he needs a plan; one of his team members suggested using Azure AD Privileged Identity Management. Is this suggestion helpful?

A. Yes

B. No

53. Jack is an App developer for an organization. He deployed an Azure Web Application. The application is deployed with Azure Web App Service and Azure SQL Database service. The defined SLA for Azure Web App

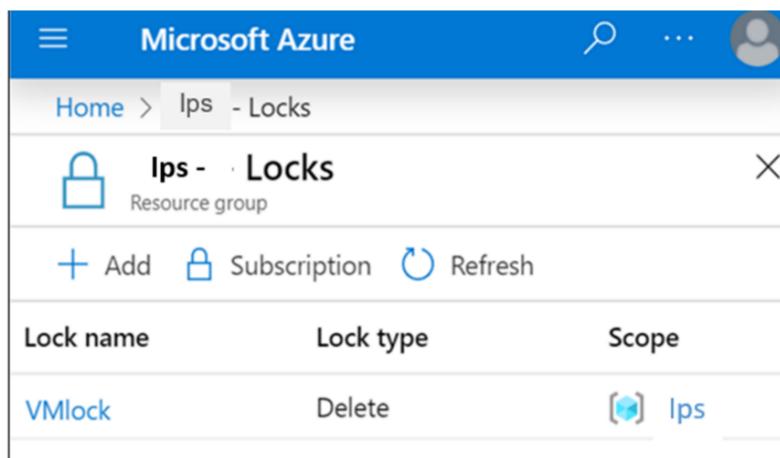
service is 99.95%, and the Azure SQL Database is 99.99%. What is the composite SLA for this application?

- A. $99.95\% \times 99.99\% = 99.94\%$
- B. 99.95%
- C. $(99.94\% + 99.99\%)/2 = 99.97\%$
- D. 99.99%

54. A resource group, “Ips”, is created by Azure users. The resource group has the following Azure resources.

<input type="checkbox"/> Name ↑↓	Type ↑↓	Resource group ↑↓
<input type="checkbox"/>  cisco123	Storage account	Ips
<input type="checkbox"/>  cisco1234.com	DNS zone	Ips
<input type="checkbox"/>  cisco12346.com	DNS zone	Ips
<input type="checkbox"/>  csb797152d323c4x...	Storage account	cloud-shell-storage-w...
<input type="checkbox"/>  jps-vm	Virtual machine	Ips

The resource group “Ips” is locked with the type “Delete”.



The screenshot shows the Microsoft Azure Locks interface. At the top, there's a navigation bar with 'Home' and 'Ips - Locks'. Below that is a header for 'Ips - Locks' with a 'Resource group' label. There are three buttons: '+ Add', 'Subscription', and 'Refresh'. The main area displays a table with three columns: 'Lock name', 'Lock type', and 'Scope'. One row is visible, showing 'VMlock' in the 'Lock name' column, 'Delete' in the 'Lock type' column, and 'Ips' in the 'Scope' column. The 'Scope' column also contains a small icon of a cloud with a lock.

Would an Azure user be able to delete any resource present within the “Ips”?

- A. Yes
- B. No

55. An organization decides to explore Azure service using Azure Free Account. Does Azure Free Account allow using Azure resources and services for a specific time?

- A. Yes
- B. No

56. An organization starts using Azure resources. They have an on-premises network. Would Azure help extend the on-premises infrastructure using the hybrid approach?

- A. Yes
- B. No

57. Thomas is studying some cloud services that make any network more reliable and flexible and provide throughput with acceptable low latency. Which of the following is best suited to the given statement?

“Able to perform as per SLA (Service Level Agreement), either the network traffic load increases or decreases”.

- A. Disaster Recovery
- B. Dynamic Scalability
- C. Fault Tolerance
- D. Low Latency

58. An organization calls up a meeting to discuss how to publicly announce the rules and regulations for creating a set of requirements that are used for the implementation of Azure service, such as Azure Resource Manager (ARM) template, role-based access control, policy, etc. One of the employees suggested using the Azure blueprint for this purpose. Is this suggestion helpful?

- A. Yes
- B. No

59. Charlie is a Software Engineer in an organization. The organization creates an Azure application by keeping the importance of business metrics. Azure application is implemented using Azure App Service with 99.95% SLA and Azure SQL Database with 99.99% SLA. Which of the following is correct in ensuring customer feedback

regarding the SLA? Choose two options to form the following:

- A. Mean time to failure (MTTF)
 - B. Mean time to recover (MTTR)
 - C. Mean time to success (MTTS)
 - D. Mean time between failures (MTBF)
- :60. A company is planning to deploy a set of Azure Virtual Machines. They want the cost estimate for deploying these Machines. Which of the following factors affect the compute cost of Virtual Machines? Choose two answers from the options given below:
- A. The data center where the Virtual Machine is located
 - B. The Resource Group where the Virtual Machine is located
 - C. The size (instance specification) of the Virtual Machine
 - D. The region the Virtual Machine is located in
- :61. A company has a set of Virtual Machines defined in Azure. They want to explore options on how costs can be cut down for the running cost of the Virtual Machines. Which of the following is an option that can be considered for cutting down the costs without affecting the services running on the Virtual Machine?

- A. Look at buying Reserved Instances
 - B. Change the Resource Group of the Virtual Machine
 - C. Stop the Virtual Machines
 - D. Deallocate the public IP address from the Virtual Machine
- :62. A company is looking to expand its current on-premises infrastructure by setting up Azure Virtual Machines and Storage Accounts. Which expenses decrease when a company considers using services such as the Virtual Machine and Storage Account?
- A. Operating Expense
 - B. Petty Expenses
 - C. Capital Expense
 - D. Secondary Expenses
- :63. A company has a set of resources in Azure. They want to get reports of “Costs incurred by resource”. Where should they go to get this information?
- A. Azure Monitor
 - B. Azure Virtual Machines
 - C. Azure Cost Management
 - D. Azure Advisor

64. A company wants to start moving its resources to Azure. They have an on-premises data center and want to migrate their workloads to Azure. They need to estimate the costs and provide a business case for moving the workloads to Azure. Which of the following can they use to help justify the costs?

- A. Azure TCO calculator
- B. Azure cost management
- C. Azure pricing calculator
- D. Azure Advisor

65. A company is planning to deploy an application onto Azure. They have set up an Azure subscription and an Azure tenant and want to implement disaster recovery for the application. Which of the following aspects of Azure could be used for disaster recovery purposes?

- A. Azure Regions
- B. Azure Data centers
- C. Azure subscriptions
- D. Azure resource groups

66. A company plans to deploy an application on Azure Virtual Machines. They have set up an Azure

subscription and an Azure AD tenant. Would adding an Azure Load Balancer to the application architecture increase the overall availability of the application?

A. Yes

B. No

67. A company wants to deploy a web application and a database backend to Azure. They need to decide on the services that can be used to host the different parts of the application. Which of the following can be used to host the web application?

A. Azure Functions

B. Azure Logic Apps

C. Azure Load Balancer

D. Azure App Service

68. A company is planning to deploy a set of applications to Azure. They are trying to design the application architectures when migrated to Azure. Which of the following reference sites can they refer to when designing architectures on Azure?

A. Azure Portal

B. Microsoft support

C. Azure Architectures site

D. Azure support

|69. A company is planning to deploy a set of repeatable resources to Azure. They want to deploy the resources in the most efficient way possible. Which of the following could they use for this requirement?

A. Resource groups

B. Resource providers

C. Management groups

D. Resource Manager templates

|70. A company wants to deploy small pieces of code onto Azure. They want to cut the costs of hosting the code. Which of the following could they consider for hosting the code?

A. Azure Virtual Machines

B. Azure Functions

C. Azure Batch service

D. Azure Logic Apps

71. You want to deploy a virtual machine scale set to Azure. Could you deploy the scale set using the Azure command-line interface?

A. Yes

B. No

72. A company is planning to set up a Microservices-based application on Azure. They want to use a service that could be used to orchestrate the deployment of container-based applications. Which of the following could be used for this purpose?

A. Azure Functions

B. Azure Logic Apps

C. Azure Kubernetes

D. Azure SQL Database

73. A company has just set up an Azure subscription and an Azure tenant. The company is exploring the different compute options available in Azure. Which of the following is NOT a compute option available in Azure?

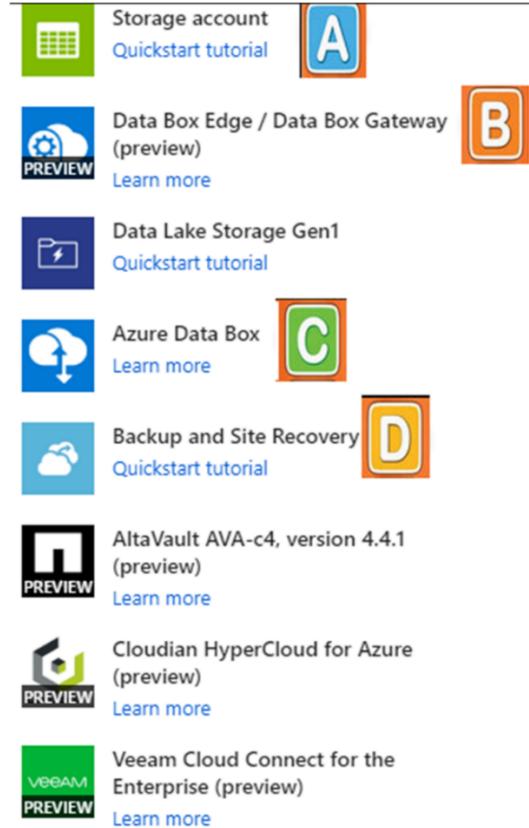
A. Azure SQL database

B. Azure Functions

C. Azure Container Instances

D. Azure App Service

74. Which of the following services allows for events generated from Azure resources to be sent to applications?
- A. Azure Event Hubs
 - B. Azure Notification Hubs
 - C. Azure Logic Apps
 - D. Azure Event Grid
75. A company wants to store data in a place used to store video files. Users will upload these video files. Which of the following would you use for this purpose?



- A. Data Box Edge
- B. Storage Account
- C. Azure Data Box
- D. Backup and Site Recovery

76. A company plans to set up an Azure Synapse Analytics (formerly SQL Data Warehouse). Is it possible to visualize the data in the warehouse with Power BI?

- A. Yes
- B. No

77. A company plans to set up a series of Azure SQL Databases. Which feature can they use to reduce the overall cost if the databases have unpredictable usage demands?

- A. Elastic Pools
- B. Azure Reservation
- C. Clustered databases
- D. Single databases

78. Suppose you want to create a Virtual Machine in Azure. You need to allocate around 30 GB of storage for the Virtual Machine. Which of the following disks would you use for this purpose?

- A. The OS disk
- B. The temporary disk
- C. The local disk
- D. A new data disk

79. A company is planning to create a Cosmos DB account. Which of the following is used as a measurement of cost for the Cosmos DB account? Select two options from the list.

- A. The number of clusters
 - B. The storage
 - C. The throughput
 - D. The number of nodes
- :80. A company has created a virtual network and launched a Virtual Machine set in the Virtual Network. They want to change how traffic is routed in the Virtual Network. Which of the following could be used to fulfill this requirement?
- A. Application Security Groups
 - B. Network Security Groups
 - C. User-Defined Routes
 - D. Azure DDoS Protection
- :81. A company currently has an Azure subscription and an Azure tenant. They want to implement Azure Multi-factor authentication. Is it possible to add an SMS as a second means of authentication for a user?
- A. Yes
 - B. No

282. A company is planning on using Microsoft Defender for Cloud. They already have a set of resources defined on the Azure platform. Is the company limited to using Microsoft Defender for Cloud to secure its Virtual Machines **ONLY** in Azure Cloud?

A. Yes

B. No

283. A company wants to have a service that could fulfil the below requirement.

“Provide the ability to generate keys in hardware security modules that never leave the hardware security module boundary.”

Which of the following services could be used for this requirement?

A. Microsoft Defender for Cloud

B. Azure Key vault

C. Azure Network Security Groups

D. Azure Advisor

284. A company is planning to create several policies in the Azure Policy service. These policies are all meant to achieve a particular goal. Which of the following could be used to organize these policies into one group?

- A. Subscriptions
- B. Resource Groups
- C. Management Groups
- D. Initiative Definition

285. A company has deployed a virtual machine in Azure to enable communication with other resources. A Network Security Group is created. While creating the Network Security Group, the following text is entered into the Tags Text box:

Name ⓘ	Value ⓘ
CrossSiteScript	: <script>Alert('CrossSiteScript')</script>

Tag:-

Name: CrossSiteScript

Value: <script>Alert('CrossSiteScript')</script>

What happens while deploying the NSG?

- A. Deploys successfully
- B. Throws error during deployment

C. Input Validation has to be enabled on the controls to avoid error

D. Input Validation has to be disabled on the controls to avoid error

286. A company has deployed a Virtual Machine in Azure, and to filter the network traffic, an Application Security Group is created through CLI using a template.

Which of the following is a valid Application Security Group template?

```
{
    "$schema": "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#",
    "contentVersion": "1.0.0.0",
    "@parameters@: {
        "applicationSecurityGroupName": {
            "type": "string",
            "metadata": {
                "description": "This is the name of the application security group"
            }
        },
        @location@: {
            "type": "string",
            "metadata": {
                "description": "Location where the application security group resource will"
            }
        }
    }
}
```

A.

```

        be created."
    }
},
@resources@: [
{
    "apiVersion": "2019-02-01",
    "type": "Microsoft.Network/applicationSecurityGroups",
    "name": "[parameters('applicationSecurityGroupName')]",
    "location": "[parameters('location')]",
    "tags": {}
}
]

{

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```

A.

```

be created."
    }
},
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}
]

{

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01/deploymentTemplate.json#",
    "contentVersion": "1.0.0.0",
    #parameters#:
        "applicationSecurityGroupName": {
            "type": "string",
            "metadata": {
                "description": "This is the name of the application security group"
            }
        },
        #location#:
            "type": "string",
            "metadata": {
                "description": "Location where the application security group resource will

```

B.

```

    be created."
        }
    }
},
#resources#: [
{
    "apiVersion": "2019-02-01",
    "type": "Microsoft.Network/applicationSecurityGroups",
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    "location": "[parameters('location')]",
    "tags": {}
}
]
}

{
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01/deploymentTemplate.json#",
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            "type": "string",
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        },
        $location$: {
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            "metadata": {
                "description": "Location where the application security group resource will

```

C.

```

be created."
        }
    }
},
$resources$: [
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    "type": "Microsoft.Network/applicationSecurityGroups",
    "name": "[parameters('applicationSecurityGroupName')]",
    "location": "[parameters('location')]",
    "tags": {}
}
]
}
```

287. A company has a Virtual Network and wants to implement the following requirements:

- To create 2 subnets and 2 VM's in each subnet
- To create a user-defined route to enable the 2 subnet resources to communicate

Can a user-defined route be created without creating a Subnet?

- A. UDR cannot be created without creating Subnet
 - B. At least one UDR is required to create a Subnet
 - C. UDR can be created without creating Subnet
 - D. There is no relation between Route and Subnet
288. A company has a Virtual Network with 2 subnets; Subnet1 and Subnet2. A Virtual Machine with a Web Server is created in Subnet1, while another Virtual Machine with a Database Server is created in Subnet2. A Firewall is created in the Virtual Network. The company's Firewall policy is set to get alerts for the Threat Intelligence mode.
- Does the Threat Intelligence mode of the newly created Firewall override the parent Policy?
- A. Parent policy is overridden with stricter setting
 - B. Parent policy can be overridden
 - C. Parent policy cannot be overridden
 - D. Parent policy is overridden, and threat intelligence can be turned off
289. A company is planning to implement an Azure DDoS protection plan.
- The company has multiple subscriptions

- The total number of resources across subscriptions is 75

Does the DDoS Protection Standard Plan meet the above requirements?

- A. DDoS Protection Standard Plan does not meet the first requirement
- B. DDoS Protection Standard Plan does not meet the second requirement
- C. DDoS Protection Standard Plan meets both requirements
- D. Multiple DDoS Protection Standard Plans are required, one for each requirement

290. A company wants to know how well security practices are implemented in Azure. Which security feature would help identify the current Identity practices and advise improvements?

- A. Azure Information Protection
- B. Azure AD Identity Secure Score
- C. Azure AD Identity Protection
- D. Microsoft Defender for Cloud

291. A company wants to implement Azure AD Identity Protection. The following are the essential

requirements:

- Prompt users if the credentials are compromised
- Identify suspicious login attempts

Which of the following policies implements the above requirements?

Choose two answers.

- A. Azure policy
- B. User risk policy
- C. Sign-in risk policy
- D. MFA registration policy

292. A company wants to move all its employees to Microsoft Entra ID. What is the initial domain where the tenant is created?

- A. portal.azure.com
- B. onmicrosoft.com
- C. azurewebsites.com
- D. microsoft.com

293. A company wants to implement Azure Multi-Factor Authentication. Which of the following is the recommended policy?

- A. Enable per-user
- B. Enable per-session
- C. Enable Security Defaults
- D. Enable Conditional Access

294. A company wants to create an IP Group to configure with an Azure Firewall. The company has 3 branches, each in a different region.

Which of the following is the right option to create an IP Group?

- A. IP Group can be created in any region
- B. IP Group has to be created for each subscription
- C. IP Group has to be created for each branch
- D. IP Group has to be created in each region

295. Your Company has multiple subscriptions and wants to implement a custom Dashboard that displays the Secure Score for each subscription.

Which of the following is a valid option?

- A. Can be implemented for only a single subscription
- B. Can be implemented using Secure Score REST API

C. Not possible to implement Secure Score onto a custom Dashboard

D. Not possible, Secure score is only accessible through the Azure Portal

296. A company wants to create an automated workflow to send notifications for specific Threats. While creating the workflow, is it mandatory to use a Logic App?

A. Yes, it is mandatory to use a Logic App while creating an automation workflow

B. No, to create an automation workflow, a Logic App is not mandatory

C. No, there is no relation between Automation Workflow and Logic App

D. No, the Logic App has to be created after creating Automation Workflow

97. A company has multiple subscriptions and many resources assigned to each; the administrator wants to know the count of Key Vaults across all the subscriptions; what is the quick way of getting the result?

A. Open the Key Vault and Count manually

- B. Use the Manage view option of Key Vault
- C. Open the Key Vault and Apply Filters
- D. Use Azure Resource Graph Explorer Query feature

98. A company has implemented Azure Information Protection, but a newly joined user is unable to access Azure Information Protection.

Which two roles would enable Azure Information Protection access to the user?

- A. Cloud Application Administrator
- B. Information Protection Administrator
- C. Group Administrator
- D. Security Administrator

99. Your company wants to implement a security solution for users who are on the on-premises Active directory and has the following requirement:

- Monitor User login/logout
- Monitor Active Directory User account changes
- Monitor Machine Account

Which is the best option to implement the above requirements?

- A. Azure AD Password Protection

- B. Microsoft Defender for Identity (formerly Azure Advanced Threat Protection, also known as Azure ATP)
- C. Azure AD Identity Protection
- D. Azure AD Privileged Identity Management

00. A company wants to implement an Azure policy to monitor Virtual Machines whose disk encryption is not enabled. How can a policy assignment be created?

Please select three options.

- A. Azure Monitor
- B. Azure Portal, ARM Template
- C. Python, REST
- D. Azure CLI, Azure PowerShell

01. A company with a healthcare application has added a newly joined user to the Application Developer role. When does the user role take effect?

- A. For the role to be effective, it might take up to 15 minutes
- B. The role will be effective immediately
- C. For the role to be effective, it might take up to 1 hour
- D. For the role to be effective, it might take up to 2 hours

:02. A company hosts a load-balanced web application (2 Web Servers and 2 App Servers). The application uses Azure SQL Database. To avoid accidental deletion of the Database, a ReadOnly lock is applied to the Database. An application user wants to update a transaction through the Web application. Which of the following is a valid action?

- A. An update transaction is not allowed since the ReadOnly lock is applied on the Database
- B. Only Select statements are valid. Update/Delete actions are invalid
- C. An update transaction is a valid action
- D. Only Select/Delete statements are valid. The Update action is invalid

:03. A company wants to integrate its ITSM tool Service Now with Azure and automatically create incidents for the Azure Advisor recommendations; what is the best way to achieve this in Azure?

- A. Integrate with ITSM tool using ITSM Connector
- B. Integrate with ITSM tool using Azure Function
- C. Integrate with ITSM tool using Logic App
- D. Cannot integrate Azure Advisor with ITSM Tool

04. A company plans to deploy multiple resources using Azure Blueprints. While creating the Blueprint by the administrator, what are the Lock Assignment options available while assigning a Blueprint?

- A. Not Locked; Cannot Edit/Delete; Read Only; Cannot Delete
- B. Delete; ReadOnly
- C. Do not Lock; Do Not Delete; Read Only
- D. Update; ReadOnly

05. A company wants to purchase an Azure support plan. Which of the following is the most cost-effective plan that has the following embedded into the plan?

- Access to the full set of Azure Advisor Recommendations.
 - Business hours access to support engineers via email.
- A. Basic
 - B. Developer
 - C. Standard
 - D. Professional Direct
 - E. Premier

06. You have set up an Azure Free Account. Will you have access to the Knowledge Center?

A. Yes

B. No

07. You are reviewing the Service Level Agreement for various services on the Azure platform. How does Azure calculate the availability of all services?

A. In a yearly billing cycle

B. In a monthly billing cycle

C. In a weekly billing cycle

D. In a daily billing cycle

08. Which of the following URLs can be used to create an Azure support request?

A. <https://portal.azure.com>

B. <https://support.azure.com>

C. <https://support.microsoft.com>

D. <https://dev.azure.com>

09. Which users get access to raise an Azure support request by default? Choose 3 answers from the options given below.

- A. Account Administrator
- B. Service Administrator
- C. Co-Administrator
- D. Billing Administrator

10. You want to build an application that would have some basic level of artificial intelligent modules. You do not have the required Artificial Intelligence skills. Which of the following can you still use to build these applications?

- A. Azure Machine Learning Studio
- B. Azure HD Insights
- C. Azure AI Services
- D. Azure Functions

11. A company has just set up an Azure account. The developers want to use a service that will easily allow them to do the following:

- Create Virtual Machines from pre-created custom images with all the software and tools installed.
- Set auto-shutdown and auto-start schedules on Virtual Machines.

Which of the following service could they use for these requirements?

- A. Azure DevOps
 - B. Azure DevTest Labs
 - C. Azure Functions
 - D. Azure Logic Apps
- |12. You are planning to use the IoT Hub service in Azure. Does this service allow for communication from a device to the cloud and from the cloud to the device?
- A. Yes
 - B. No
- |13. You are planning to use the Azure Cloud Shell service. Which of the following is required by Azure Cloud Shell to work? Choose 3 answers from the options given below:
- A. A resource group
 - B. A storage account
 - C. A file share
 - D. A virtual machine

14. A company needs to deploy a solution to Azure. They want a solution that can distribute content to users worldwide with the least amount of latency. Which of the following could they use for this requirement?

- A. Azure Virtual Network
- B. Azure Content Delivery Network
- C. Azure Load Balancer
- D. Azure Application Gateway

15. A company has just set up an Azure Free account. Is it TRUE that only Azure Virtual Machines and Azure storage accounts can be deployed to the Azure Free Account?

- A. Yes
- B. No

16. Your company has a set of resources defined as part of a subscription. If they delete a resource group, would the resources in the Resource Group also get deleted?

- A. Yes
- B. No

17. Your company has a set of resources defined as part of a subscription. Is it TRUE that Azure resources can only access other resources in the same Resource Group?

A. Yes

B. No

18. Your company has a set of resources and resource groups defined as part of a subscription. Can you nest Resource Groups in Azure?

A. Yes

B. No

19. A company wants to create an Azure Virtual Machine as part of its subscription. Can the Azure Virtual Machine be a part of multiple Resource Groups?

A. Yes

B. No

20. You have to specify whether the following statement is TRUE or FALSE:

“General Data Protection Regulation (GDPR) defines data protection and privacy rules”.

- A. True
- B. False

|21. You have to specify whether the following statement is TRUE or FALSE:

“General Data Protection Regulation (GDPR) only applies to companies that offer goods or services to individuals in the EU”.

- A. Yes
- B. No

|22. You have data that is stored in the Archive access tier of an Azure Storage account. Which of the following must be done before you can access the data in the storage account?

- A. The data must be restored
- B. The data must be backed up with Azure Backup
- C. The data needs to be copied by using the azcopy.exe tool
- D. The data needs to be rehydrated

23. Which of the following services would you enable "just-in-time VM access"?

- A. Azure Bastion
- B. Azure Firewall
- C. Azure Front Door
- D. Microsoft Defender for Cloud

24. Which is a customer's responsibility in the cloud (VM services)?

- A. Maintaining the underlying physical servers
- B. Security of data hosted on Azure Virtual Machines
- C. Uptime of the Virtual Machine service
- D. Cooling in the data center

25. A company is planning on hosting Virtual Machines across multiple Availability zones. Which of the following is the company trying to achieve with this implementation?

- A. Better elasticity
- B. Reduction in costs

C. Better Availability

D. Disaster Recovery

26. Which one of the following services falls under the category of serverless computing?

A. Azure virtual machines

B. Azure SQL database - Elastic pool

C. Azure Functions

D. Availability sets

27. Which of the following is used to group subscriptions together?

A. Resource groups

B. Region pairs

C. Management Groups

D. Availability sets

28. Your company is planning on hosting resources using Azure services. You must decide on the right service for the desired requirement. Which would you use for the following requirement?

“Provide the ability to host a private network in Azure”.

- A. Azure App Service
- B. Azure Kubernetes
- C. Windows Virtual Desktop
- D. Azure Virtual Network

29. Your company is planning on hosting resources using Azure services. You must decide on the right service for the desired requirement. Which would you use for the following requirement?

“Provide the ability to deploy and orchestrate container-based applications”.

- A. Azure App Service
- B. Azure Kubernetes
- C. Windows Virtual Desktop
- D. Azure Virtual Network

30. Your company is planning on hosting resources using Azure services. You must decide on the right service for the desired requirement. Which would you use for the following requirement?

“Provide the ability to host web-based applications. The platform should provide the ability to host applications based on different programming frameworks”.

- A. Azure App Service

- B. Azure Kubernetes
- C. Windows Virtual Desktop
- D. Azure Virtual Network

31. Your company is planning on hosting resources using Azure services. You must decide on the right service for the desired requirement. Which of the following would you use for the following requirement?

“Provide an environment for desktop and application virtualization”.

- A. Azure App Service
- B. Azure Kubernetes
- C. Windows Virtual Desktop
- D. Azure Virtual Network

32. A company is planning on using the Azure Storage Account service. They are going to create a General Purpose V2 storage account and are going to use the Blob service in the storage account. Can they set the objects to use the Archive access tier at the storage account level?

- A. Yes
- B. No

33. Your company is planning on hosting resources using Azure services. You must decide on the right service for the desired requirement. Which would you use for the following requirement?

“Provide a service that can host a data warehouse”.

- A. Azure AI Service
- B. Azure DevOps
- C. Azure Bot service
- D. Azure Synapse Analytics

34. Your company plans on hosting resources using Azure services. You must decide on the right service for the desired requirement. Which would you use for the following requirement?

“Provide a service to add artificial intelligence features to applications”.

- A. Azure AI Service
- B. Azure DevOps
- C. Azure Bot Service
- D. Azure Synapse Analytics

35. Your company is planning on hosting resources using Azure services. You must decide on the right service for the desired requirement. Which would you use for the following requirement?

“Provide a service that is used to integrate bots with applications”.

- A. Azure AI Service
- B. Azure DevOps
- C. Azure Bot service
- D. Azure Synapse Analytics

36. Your company wants to start working with Azure. They want to create and manage resources in Azure. Would you be able to create resources using the Azure CLI?

- A. Yes
- B. No

37. Your company wants to start working with Azure. They want to create and manage resources in Azure. Would you be able to create resources using PowerShell?

- A. Yes
- B. No

38. Your company wants to host a set of Azure Virtual Machines. However, they want to ensure that only their virtual machines are hosted on the underlying physical

server. Which of the following would you make use of for this requirement?

- A. Azure App Service
- B. Azure Kubernetes
- C. Azure Functions
- D. Azure Dedicated Hosts

|39. A company wants to make use of the various security services in Azure. They want the ability to store secrets and certificates in the Azure cloud.

They decide to use the Azure Key Vault service.

Would this fulfill the requirement?

- A. Yes
- B. No

|40. A company wants to make use of the various security services in Azure. They want to get security recommendations for resources deployed to their Azure subscription.

They decide to use the Azure Key Vault service.

Would this fulfill the requirement?

A. Yes

B. No

41. A company wants to make use of the various security services in Azure. They want to restrict the inbound traffic to Azure Virtual Machines.

They decide to use Microsoft Defender for Cloud service.

Would this fulfill the requirement?

A. Yes

B. No

42. A company has just set up an Azure subscription and an Azure tenant. They want to use services that would fulfill different requirements. Which can be used for the following requirement?

“Ensure that only Virtual Machines of a particular SKU size can be launched within an Azure subscription”.

A. Azure resource locks

B. Azure Policies

C. Azure Blueprints

D. Azure resource tags

|43. A company has just set up an Azure subscription and an Azure tenant. They want to use services that would fulfill different requirements. Which can be used for the following requirement?

“Be able to organize resources for billing purposes”.

- A. Azure resource locks
- B. Azure Policies
- C. Azure Blueprints
- D. Azure resource tags

|44. A company has just set up an Azure subscription and an Azure tenant. They want to use services that would fulfill different requirements. Which can be used for the following requirement?

“Provide a declarative way to orchestrate the deployment of various resources”.

- A. Azure resource locks
- B. Azure Policies
- C. Azure Blueprints
- D. Azure resource tags

|45. Which service in Azure can be used to enable Multi-Factor Authentication for Azure users?

- A. Azure Sentinel
 - B. Azure Key Vault
 - C. Microsoft Defender for Cloud
 - D. Microsoft Entra ID
- |46. Your company wants to use the Total Cost of Ownership (TCO) calculator to assess the costs of moving its existing resources to the cloud. Could you see the TCO for server workloads that need to be migrated to Azure?
- A. Yes
 - B. No
- |47. Your company wants to use the Total Cost of Ownership calculator to assess the costs of moving its existing resources to the cloud. Can you download the report to share with other stakeholders?
- A. Yes
 - B. No
- |48. Your company wants to deploy a set of Azure virtual machines and increase the availability of the underlying machines. You decide to deploy the machines across multiple Resource Groups. Would this fulfill the requirement?

A. Yes

B. No

49. Your company wants to deploy a set of Azure virtual machines and increase the availability of the underlying machines. You decide to deploy the machines across multiple subscriptions. Would this fulfill the requirement?

A. Yes

B. No

50. Your company wants to deploy a set of Azure virtual machines and increase the availability of the underlying machines. You decide to deploy the machines across multiple availability zones. Would this fulfill the requirement?

A. Yes

B. No

51. Your company has just set up an Azure account. They also have resources deployed in their on-premises data center. They want to connect their Azure virtual network to their on-premises data center. Can they consider using Azure virtual network peering for this requirement?

- A. Yes
 - B. No
52. Your company has just set up an Azure account. They also have resources deployed in their on-premises data center. They want to connect their Azure virtual network to their on-premises data center. Can they consider using Azure ExpressRoute for this requirement?
- A. Yes
 - B. No
53. Your company has just set up an Azure account. They also have resources deployed in their on-premises data center. They want to connect their Azure virtual network to their on-premises data center. Can they consider using Azure Site-to-Site VPN for this requirement?
- A. Yes
 - B. No
54. Your company is trying to assess the benefits of using the Azure Cosmos DB service. Can they migrate their existing MongoDB database onto Azure Cosmos DB?
- A. Yes
 - B. No

55. Your company is trying to assess the benefits of using the Azure Cosmos DB service. Can they migrate their SQL Server workloads to Azure Cosmos DB?

A. Yes

B. No

56. Your company is trying to assess the benefits of using the Azure Cosmos DB service. Can data in an Azure Cosmos DB account be available in multiple Azure locations?

A. Yes

B. No

57. Your company wants to make use of the Azure storage account service. They have provisioned a General Purpose V2 storage account. Which service in the storage account is used for storing hard disk files for Azure virtual machines?

A. File

B. Blob

C. Queue

D. Table

58. Your company wants to make use of the Azure storage account service. They have provisioned a General

Purpose V2 storage account. Which service in the storage account is used for storing objects?

- A. File
- B. Blob
- C. Queue
- D. Table

59. Your company wants to make use of the Azure storage account service. They have provisioned a General Purpose V2 storage account. Which service in the storage account is used for storing files that can be accessed via the Server Message Block protocol?

- A. File
- B. Blob
- C. Queue
- D. Table

60. A company has a set of Azure Virtual Machines hosting web servers. The web servers need to send logs to a central log store. What can be used for this requirement?

- A. Azure Advisor

- B. Azure Monitor
- C. Azure Service Health
- D. Azure DevOps

61. Which of the following is used as a secured, high-level application platform with built-in communication and security features for internet-connected devices?

- A. Azure Synapse
- B. Azure Sphere
- C. Azure Databricks
- D. Azure HDInsight

62. Your company is planning on hosting a set of Virtual Machines in Azure. They want to save on the running compute costs for the Virtual Machines. Can they consider using reserved instances for this requirement?

- A. Yes
- B. No

63. Your company is planning on hosting a set of Virtual Machines in Azure. They want to save on the running compute costs for the Virtual Machines. Can they consider using Spot VMs for this requirement?

- A. Yes

B. No

64. Your company is planning on hosting a set of Virtual Machines in Azure. (the application must reside on Virtual Machines) They want to save on the running compute costs for the Virtual Machines. Can they consider using Azure Functions for this requirement?

A. Yes

B. No

65. Which of the following services is a cloud-based network security service that helps protect the resources stored in an Azure Virtual Network?

A. Azure Sentinel

B. Azure Key Vault

C. Azure Dedicated Host

D. Azure Firewall

366. Your company's data centers are in New York and Los Angeles. The business subscribes to Microsoft Azure. You set up the two data centers for site resilience as geo-clustered sites.

You must suggest a redundant Azure storage solution.

You need to store the following types of data:

- Multiple nodes must be used to store data.
- Data must be kept on nodes at different places geographically.
- Both the primary location and the secondary site can read data.

Which option for Azure stored redundancy would you suggest?

- A. Zone-Redundant Storage
- B. Geo-Redundant Storage
- C. Locally Redundant Storage
- D. Read-Access Geo-Redundant Storage

367. Ten web applications made by your developers must be hosted on Azure.

Which Azure web tier plan will be used to host the web apps? The web tier plan needs to fulfill the following criteria:

- Custom domains will be used by the web apps.
- Each web application needs 10 GB of storage.
- Each of the web applications needs its own dedicated computing instance
- It is necessary to implement load balancing between instances

- Costs must be kept to a minimum

Which web tier plan ought to be utilized?

- A. Standard
- B. Basic
- C. Both A and B can be used
- D. Shared

368. Microsoft Azure hosts Virtual Machines (VMs) for your business. A single Azure Virtual Network called VNet1 contains all of the VMs.

Some users work remotely for the company. The VMs on VNet1 must be accessible to these remote workers.

You must make access available to the remote workers.

What should you do?

- A. Configure Site-to-Site VPN
- B. Configure Point-to-Site VPN
- C. Configure VNet-to-VNet VPN
- D. Configure a Multi-Site VPN

369. According to organizational policies, which Microsoft Entra ID functionality grants access to resources?

- A. Conditional Access
 - B. Administrative Units
 - C. Multi-Factor Authentication
 - D. Single Sign-On (SSO)
370. Which cloud strategy is employed by businesses to fully leverage their on-premises IT investments and enable the sharing of data and applications between two environments?
- A. Private Cloud
 - B. Public Cloud
 - C. On-premises Databases
 - D. Hybrid Cloud
371. Which setting enables encrypted internet-based communication between an on-premises VPN device and an Azure VPN gateway?
- A. Site-to-Site VPN
 - B. Point-to-Site VPN
 - C. VNet-to-VNet VPN
 - D. ExpressRoute

372. Which of the following Azure features allows you to place Azure resources close to users?

- A. Elasticity
- B. Scalability
- C. High Availability
- D. Geo-distribution

373. Which of the following allows you to create a collection of synchronized, load-balanced Virtual Machines in Azure?

- A. Azure Logic Apps
- B. Azure Virtual Machine Scale Set
- C. Availability set
- D. Azure Load Balancer

374. Which of the following allows for scaling up to thousands of Virtual Machines for high-performance computing and massively parallel tasks?

- A. Azure Batch
- B. Azure Virtual Machine Scale Set
- C. Availability set
- D. Availability zone

375. Which layer of defense in depth protects against Distributed Denial of Service (DDoS)?

- A. Physical Security Layer
- B. Application Layer
- C. Perimeter Layer
- D. Network Layer

376. In addition to 50 Virtual Machines hosted in Azure, you also have 50 Virtual Machines hosted on-site. The virtual computers in Azure and on-premises are connected.

Which cloud model is this?

- A. Public Cloud
- B. Private Cloud
- C. Hybrid Cloud
- D. None of the above

377. Your business intends to upload several original applications to Azure. The company's clients will receive invoicing services from the applications. There will be some required applications and services installed for each application.

For each application, you must suggest a cloud deployment solution.

What should you suggest?

- A. Software as a Service
- B. Infrastructure as a Service
- C. Platform as a Service
- D. None of the above

378. What does a customer provide in a Software as a Service (SaaS) model?

- A. Application Data
- B. Application software
- C. Data Storage
- D. Compute resources

379. Your business intends to move all of its resources and data to Azure.

According to the company's migration strategy, Azure can only be used for Platform as a Service (PaaS) solutions.

Deploy an Azure environment that adheres to the organization's migration strategy.

What ought you to produce?

- A. Azure storage accounts, Azure Virtual Machines, and Azure SQL databases
- B. Microsoft SQL Server-equipped Azure Virtual Machine and an Azure App Service
- C. Azure SQL databases and an Azure App Service
- D. Azure Virtual Machines house the web server and storage accounts

380. Several servers are part of your on-premises network. You intend to move every server to Azure.

If a single Azure data center falls unavailable for an extended period, you must provide a method to guarantee that some servers are still operational.

What should the recommendation contain?

- A. Elasticity
- B. Fault Tolerance
- C. Low Latency
- D. Scalability

381. What two features do public clouds have?

- A. Dedicated Hardware
- B. Unsecure connections

- C. Limited Storage
- D. Self-Service Management
- E. Metered Pricing

382. All of the clients of your business utilize an accounting application called App1 that is hosted by your business.
The first three weeks of every month see little usage of App1, whereas the last week of every month sees exceptionally high usage.

Which Azure Cloud Services feature helps with cost management for this usage pattern?

- A. Elasticity
- B. High Latency
- C. High Availability
- D. Load balancing

383. An existing online application will be moved to Azure. External users can access the online application.
You must suggest a cloud deployment option to reduce the administrative work required to manage the online application.
What should the recommendation contain?

- A. Database as a Service
- B. Platform as a Service
- C. Infrastructure as a Service
- D. Software as a Service

384. You have a network on your premises with 100 servers.

You must advise your users to use a solution that gives them more resources. The answer must reduce both capital and operating expense costs.

What ought to be contained in the recommendation?

- A. Private Cloud
- B. Public Cloud
- C. Hybrid Cloud
- D. None of the above

385. From an on-premises network, you intend to move a number of servers to Azure.

What benefits do public cloud services provide over an on-premises network for the servers?

- A. The public, not a private company, is the owner of the public cloud
- B. A public cloud is a crowdsourcing tool that gives businesses a chance to improve the cloud

- C. Everybody in public has free access to all public cloud resources
- D. The public cloud is a shared resource that is utilized by numerous businesses, each of which uses a fraction of the cloud's resources

386. Which cloud model allows several tenants to share one set of hardware resources owned by a third party?

- A. Public Cloud
- B. Private Cloud
- C. Hybrid Cloud
- D. None of the Above

387. In a data center, 1,000 virtual machines are housed on Hyper-V hosts.

All Virtual Machines will be switched to an Azure pay-as-you-go subscription.

You must decide which spending model to use for the envisioned Azure solution.

Which spending model should you choose?

- A. Capital
- B. Operational
- C. Elastic
- D. Scalable

388. One hundred servers are part of your on-premises network.

You must advocate for a solution that gives your users more resources. Costs associated with capital and operating expenditures must be kept to a minimum.

What should the recommendation contain?

- A. Complete migration to the public cloud
- B. An additional data center
- C. Private cloud
- D. Public cloud

389. From an on-premises network, you intend to move a number of servers to Azure.

What benefits do public cloud services provide over an on-premises network for the servers?

- A. The public, not a private company, is the owner of the public cloud
- B. The public cloud is a crowdsourcing tool that gives businesses a chance to improve the cloud
- C. Everybody in public has free access to all public cloud resources
- D. The public cloud is a shared resource that is utilized by numerous businesses, each of which uses a fraction of the cloud's resources

390. What Azure feature allows resources to be replicated between regions even when 300 miles apart?

- A. Sovereign Regions
- B. Region Pair
- C. Availability Zone
- D. Availability Set

391. Which Azure service enables customers to log in using most contemporary browsers and enjoy a cloud-hosted version of Windows from any location?

- A. Azure Virtual Machine
- B. Azure Logic Apps
- C. Azure Virtual Desktop
- D. Azure Functions

392. What attribute of an Azure virtual machine staggers updates among VMs according to their update domain and fault domain?

- A. Availability Sets
- B. Scale Sets
- C. Availability Zone
- D. Region

393. Which Azure Storage service can handle text, binary data formats, and big data analytics?

- A. Table Storage
- B. Blob Storage
- C. Queue Storage
- D. Archive

394. Which of the following enables the automated updating of files between an on-premises Windows server and an Azure cloud environment?

- A. Storage Explorer
- B. AzCopy
- C. Azure Sync File
- D. Archive

395. Depending on signals like the user's location, which Microsoft Entra ID tool can change the login credentials required?

- A. Conditional Access
- B. Passwordless
- C. Guest Access
- D. None of the above

396. Which security approach protects resources by assuming the worst-case security scenario?

- A. Defender
- B. Role-Based Access Control
- C. Defense-in-depth
- D. Zero Trust Model

397. Multiple roles are simultaneously assigned to users when role-based access control is used. What actual permissions do they have?

These are the role permissions:

- Role - 1: Read
- Role - 2: Write
- Role - 3: Read and Write

- A. Read and write
- B. Write only
- C. Read only
- D. None of the above

398. How can you avoid manually assessing each resource as it is being created and prevent the creation of non-compliant resources?

- A. Azure Policy
- B. Azure Blueprint
- C. Azure Resource Manager
- D. Role-Based Access Control

399. How many parameters are required for an Azure Blueprint Artifact to be functional?

- A. 3
- B. 0
- C. 1
- D. 2

400. What service aids in managing your on-premises, multi-cloud, and Azure environments?

- A. Azure Resource Manager
- B. Azure Policy
- C. Azure Blueprint
- D. Azure Arc

401. What two elements can you employ to implement an "infrastructure as code" deployment?

- A. Azure Policy and Azure Arc
 - B. Azure Policy and Azure Blueprint
 - C. Azure Blueprint and ARM Templates
 - D. Azure Arc and Azure Monitor
402. Which does not fall under the Azure Advisor recommended categories?
- A. Capacity
 - B. Performance
 - C. Reliability
 - D. Cost
403. You get a message through email that one of the Virtual Machines (VMs) you have deployed in an Azure region is suffering an outage. What part of Azure Service Health will inform you if your application is impacted?
- A. Service Health
 - B. Performance
 - C. Resource Health
 - D. Azure Monitor
404. What phase of the Microsoft Cloud Adoption Framework for Azure is the first?

- A. Make a plan
- B. Build organization
- C. Start using Cloud
- D. Design Strategy

405. Which of the following best describes a virtual machine's ability to expand its computational power by adding memory or CPUs?

- A. Vertical Scaling
- B. Horizontal Scaling
- C. Elasticity
- D. Agility

406. Which of the following are the features of Azure Virtual Network?

- A. Packet Inspection
- B. Geo-Redundancy
- C. Resource Cost Analysis
- D. Isolation
- E. Segmentation

407. The kind of failure for which an Azure Availability Zone can be utilized to safeguard access to Azure services must be determined.

What are you supposed to notice in this case?

- A. Azure Region Failure
- B. Data center Failure
- C. Physical Server Failure
- D. Storage Failure

408. Your business intends to switch to Azure. The business has numerous departments. A department administrator will oversee each department's utilization of all Azure resources.

What two methods might be used to divide Azure into departments?

- A. Multiple Regions
- B. Multiple Tenants
- C. Multiple Resource Groups
- D. Multiple Azure Ad Directories
- E. Multiple Subscriptions

409. You have several Azure Virtual Machines in your Azure setup.

The client computers on your on-premises network will be able to communicate with the Azure Virtual Machines with a solution you intend to build.

Which Azure resources should be developed for the intended solution must be suggested.

Which two Azure resources ought to be mentioned in the suggestion?

- A. VNet Gateway
- B. Gateway Subnet
- C. Application Gateway
- D. Load Balancer
- E. Azure Virtual Network

410. You attempt to set up multiple managed Microsoft SQL Server instances in Azure but are informed that your Azure subscription limits need to be increased.

What actions are necessary to raise the limits?

- A. Create a new support request
- B. Modify an Azure Policy
- C. Create service health alert
- D. Upgrade support plan

411. Your business intends to transfer several servers to Azure.

According to the company's compliance guidelines, FinServer must be located on a different network segment.

The Azure services that can be leveraged to satisfy the compliance policy requirements are being evaluated.

Which Azure product would you suggest?

A. FinServer has its own resource group, and all the other servers have their own resource group

B. A separate Virtual Network for all the other servers and one for FinServer Manyest Votes

C. A Virtual Network gateway for every other server and a VPN for FinServer

D. A resource lock for FinServer and a single resource group for all servers

412. You want to map a network drive from several Windows 10 computers to Azure Storage.

You must construct a storage solution in Azure for the anticipated mapped disk.

What ought you to produce?

A. Blob Service in Storage Account

B. Virtual Machine Data Disk

- C. Azure SQL Database
- D. File Service in Storage Account

413. Your business intends to switch to Azure and move all its network resources there.

Investigating Azure is where you should start the planning process.

What should you produce initially?

- A. Virtual Network
- B. Management Group
- C. Subscription
- D. Resource Group

414. What Azure service should you use to consolidate events from several resources into one location?

- A. Azure Event Hub
- B. Defender for Cloud
- C. Azure Policy
- D. Azure Data Analytics

415. You must be informed when Microsoft intends to perform maintenance that can impact the resources deployed to an Azure subscription.

Which of the following should you employ?

- A. Azure Trust Center
- B. Azure Service Health
- C. Azure Advisor
- D. Azure Resource Health

416. A third-party virtual security appliance must be purchased before it can be installed on an Azure subscription.

Which should you employ?

- A. Microsoft Store
- B. Azure Defender for Cloud
- C. Azure Marketplace
- D. Azure Subscription

417. You are going to use Azure Virtual Machines to deploy a service.

If a data center fails, you must ensure the service is still available.

Which of the following should you employ in the deployment of Virtual Machines?

- A. Availability Zone
- B. Host groups
- C. Availability Set
- D. Placement Group

418. Your business has an Azure subscription with resources spread across various locations. Administrators can use only those regions to build resources.

Which of the following should you employ to ensure this?

- A. Management Group
- B. Read-Only Lock
- C. Azure Policy
- D. Reservation

419. What purpose does a site-to-site VPN serve?

- A. Establishes a secure link between a computer connected to a public network and the company network
- B. Offers a private connection to Azure that is dedicated and DOES NOT use the Internet
- C. Establishes a connection between an Azure VPN gateway and an on-premises VPN device
- D. None of the above

420. Container management is necessary. Which two services are available for use?

- A. Azure Virtual Machine
- B. Azure Kubernetes Service
- C. Azure Functions
- D. Azure Virtual Desktop
- E. Azure Container Instance

421. The fact that high availability is a feature of the Azure SQL Data Warehouse platform is one of its advantages. True or False?

- A. True
- B. False

422. You have an on-premises program that automatically sends email notifications under a rule.

- The application will be moved to Azure
- For the application, you must suggest a serverless computing solution

What should the recommendation contain?

- A. Azure Logic App
- B. Azure Web App
- C. API App
- D. Server Image in Azure Marketplace

423. A website will be deployed to Azure by you. Users from all over the world can visit the website, which will host big video files.

Which Azure feature should be utilized to deliver the greatest video playback experience?

Which of the following would you suggest?

- A. Application Gateway
- B. ExpressRoute Circuit
- C. Azure Traffic Manager Profile
- D. Content Delivery Network

424. Your business intends to deploy millions of sensors that will provide data to Azure.

Which Azure resources must be established to support the intended solution must be determined.

Which two Azure resources are you supposed to name?

- A. Azure Queue Storage
- B. ExpressRoute Circuit
- C. Azure IoT Hub
- D. Azure File Storage
- E. Azure Data Lake

425. You have a web app for Azure.

The web app's settings must be managed from an iPhone.

Which two Azure management tools are available for use?

- A. Azure Portal
- B. Azure Storage Explorer
- C. Azure CLI
- D. Azure Cloud Shell
- E. WindowsPowerShell

426. Your business intends to deploy millions of sensors that will provide data to Azure.

Which Azure resources must be established to support the intended solution. Which two Azure resources are you supposed to name?

- A. Azure Data Lake
- B. Azure Queue Storage
- C. Azure File Storage
- D. Azure Notification Hubs
- E. Azure IoT Hub

427. Your business intends to use Azure to deploy an Artificial Intelligence (AI) solution.

How should the business develop, test, and implement predictive analytics solutions?

- A. Azure Batch
- B. Azure Cosmos DB
- C. Azure Logic Apps
- D. Azure Machine Learning Designer

428. What can you use to have an Azure virtual machine shutdown warning sent to you automatically?

- A. Azure Service Health
- B. Azure Monitor
- C. Azure Network Watcher
- D. Azure Advisor

ANSWERS

1. Answer: B

Explanation: Each Data Box storage device has a maximum usable storage capacity of 80 TB

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/databox/data-box-overview>

2. Answer: B

Explanation: Data Box is ideally suited for data sizes larger than 40 TB in scenarios with limited or no network connectivity

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/databox/data-box-overview>

3. Answer: C

Explanation: The local web UI is used to configure the device for network connectivity and register the device with

the Data Box service

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/databox/data-box-overview>

4. Answer: B (Tamper-resistant screws and stickers)

Explanation: The device has a rugged casing secured by tamper-resistant screws and tamper-evident stickers to protect and secure data during transit

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/databox/data-box-overview>

5. Answer: C

Explanation: Azure Resource Manager is the deployment and management service for Azure.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

6. Answer: B

Explanation: A resource group is a container that enables you to manage related resources for an Azure solution.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

7. Answer: B

Explanation: The resource group's location stores metadata about the resources for compliance reasons.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

8. Answer: A (ARM templates use declarative syntax to define resource properties)

Explanation: ARM templates use declarative syntax to state, "Here's what I intend to create," without writing the sequence of programming commands.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

9. Answer: B (800 instances)

Explanation: A resource group can deploy up to 800 instances of a resource type.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

10. Answer: C

Explanation: Azure Resource Manager ensures resiliency by being distributed across regions and availability zones.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

11. Answer: B

Explanation: An extension resource adds to another resource's capabilities.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

12. Answer: B

Explanation: When you delete a resource group, all resources in the resource group are also deleted.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

13. Answer: B

Explanation: You can manage access control by assigning Azure Policies, Azure roles, or resource locks to a resource group.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

14. Answer: B

Explanation: Tags are applied to a resource group to logically organize resources in your subscription.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

15. **Answer:** C

Explanation: The primary purpose of a DR plan is to define strategies for recovering from large-scale disasters.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/well-architected/reliability/disaster-recovery>

16. **Answer:** B

Explanation: Disasters include regional outages, service outages, and severe malicious attacks in the context of a DR plan.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/well-architected/reliability/disaster-recovery>

17. Answer: C

Explanation: Clearly defined roles ensure efficient communication and coordination during a disaster.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/well-architected/reliability/disaster-recovery>

18. Answer: C

Explanation: Separating fallback from the DR plan avoids potential confusion and ensures that necessary steps are mirrored.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/well-architected/reliability/disaster-recovery>

19. Answer: B

Explanation: Trained operators need to carefully monitor automated processes to avoid risks during a DR scenario.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/well-architected/reliability/disaster-recovery>

20. **Answer:** D

Explanation: Regular DR drills are conducted to test the validity of the DR plan and recovery metrics.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/well-architected/reliability/disaster-recovery>

21. **Answer:** C

Explanation: Redundancy in Azure Storage protects data from planned and unplanned events.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

22. **Answer:** C

Explanation: Consider availability and durability when choosing a redundancy option for Azure Storage.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

23. Answer: C

Explanation: Locally redundant storage (LRS) is the least expensive but not recommended for high availability applications.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

24. Answer: C

Explanation: Data in LRS is replicated three times within a single data center in the primary region.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

25. Answer: B

Explanation: Zone-redundant storage (ZRS) is recommended for Azure Data Lake Storage Gen2 workloads.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

26. **Answer:** C

Explanation: ZRS replicates data synchronously across three Azure availability zones in the primary region.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

27. **Answer:** C

Explanation: ZRS offers durability for storage resources of at least 99.999999999% over a given year.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

28. Answer: B

Explanation: GZRS combines availability zones with protection from regional outages.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

29. Answer: B

Explanation: During failover, the secondary region becomes the new primary region.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

30. Answer: B

Explanation: Read-access geo-redundant storage (RA-GRS) provides the capability to read data from the secondary region in addition to geo-redundancy, allowing users to access their data even if the primary region is unavailable.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

31. **Answer:** D

Explanation: RA-GRS provides read access to the data in the secondary location in addition to geo-redundancy, and as of now, Azure Files does not offer this feature.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

32. **Answer:** B

Explanation: Applications can be designed to shift to reading data from the secondary region by configuring RA-GRS.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

33. **Answer:** B

Explanation: The recovery point objective (RPO) in asynchronous geo-replication is the interval between the most recent writes to the primary region and the last write that has been successfully replicated to the secondary region.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

34. **Answer:** D

Explanation: Geo-zone-redundant storage (GZRS) is designed for maximum consistency, durability, and availability.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

35. **Answer:** D

Explanation: Azure Files does not support Geo-zone-redundant storage (GZRS). GZRS is a replication option that provides redundancy across availability zones within a

region, but Azure Files currently does not offer support for this level of redundancy.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

36. **Answer:** B

Explanation: Naming conventions help ensure the uniqueness of resource names within a given scope.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

37. **Answer:** D

Explanation: A resource can only be created in a virtual network that exists in the same region and subscription.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

38. Answer: D

Explanation: Consider factors like network latency, data residency, sovereignty, compliance, and availability zone support when deciding on Azure regions.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

39. Answer: B

Explanation: Organizational security requirements may influence the decision on the number of virtual networks.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

40. Answer: B

Explanation: A virtual network in Azure represents an isolated portion of the Azure public network. It allows users to securely connect and isolate their Azure resources, providing control over IP address blocks, routing, and network security settings.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

41. **Answer:** B

Explanation: A network virtual appliance (NVA), such as a firewall, can be used to control traffic flow between connected virtual networks.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

42. **Answer:** C

Explanation: Traffic filtering between resources in a virtual network in Azure can be achieved using a Network Security Group (NSG) or Network Virtual Appliance (NVA). NSGs allow you to control inbound and outbound traffic to network interfaces (NIC), VMs, and subnets by defining security rules. At the same time, NVAs are third-party appliances or virtual machines that can be used to implement additional network functionalities, including advanced traffic filtering and routing.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

43. Answer: B

Explanation: The purpose of a Network Security Group (NSG) in Azure is traffic filtering. NSGs are used to control inbound and outbound traffic to network interfaces (NIC), virtual machines, and subnets.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

44. Answer: C

Explanation: Azure's default routing between subnets can be overridden by creating a route table and associating it with a subnet.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

45. Answer: C

Explanation: Virtual network peering connects virtual networks within the same or different regions.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

46. Answer: C

Explanation: An Azure VPN Gateway is used to connect a virtual network to an on-premises network.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

47. Answer: B

Explanation: For name resolution between resources in peered virtual networks, deploy your own DNS server or use Azure DNS private domains.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

48. Answer: C

Explanation: Azure RBAC (Role-Based Access Control) is the Azure service used for assigning permissions and roles for virtual network capabilities. Azure RBAC allows you to control access to Azure resources by assigning roles to users, groups, or applications at a certain scope, such as a subscription, resource group, or individual resources.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

49. Answer: C

Explanation: Azure Policy enables enforcing organizational standards and service level agreements for virtual networks.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

50. Answer: B

Explanation: Azure Policy evaluates resource compliance with policy definitions to ensure adherence to organizational standards.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/virtual-network-vnet-plan-design-arm>

51. Answer: B

Explanation: Applications typically connect to Microsoft Entra ID to retrieve security tokens.

For further results, you can visit the given URL.

<https://www.examtopics.com/discussions/microsoft/view/56627-exam-az-900-topic-1-question-13-discussion/>

52. Answer: B

Explanation: If you create a new subscription, the virtual machines can be moved to the new subscription.

For further results, you can visit the given URL.

<https://www.examtopics.com/discussions/microsoft/view/56627-exam-az-900-topic-1-question-13-discussion/>

53. **Answer:** B

Explanation: Azure Machine Learning Studio is suitable for building, testing, and deploying predictive analytics solutions.

For further results, you can visit the given URL.

<https://www.examtopics.com/discussions/microsoft/view/56627-exam-az-900-topic-1-question-13-discussion/>

54. **Answer:** C

Explanation: Creating a Files service in a storage account allows you to use Azure Storage as a file share for mapping network drives.

For further results, you can visit the given URL.

<https://www.examtopics.com/discussions/microsoft/view/3205-exam-az-900-topic-1-question-111-discussion/>

55. **Answer:** C

Explanation: Azure Cost Management requires an Enterprise Agreement (EA) for tracking and managing costs effectively

For further results, you can visit the given URL.

<https://www.nops.io/what-is-required-for-azure-cost-management>

56. **Answer:** C

Explanation: Deciding the cloud deployment type or architecture is crucial to meet specific business requirements for cloud computing.

For further results, you can visit the given URL.

<https://www.sciencedirect.com/topics/computer-science/cloud-deployment-model>

57. **Answer:** C

Explanation: In a public cloud, the cloud provider owns and manages the resources. Users or organizations leverage the services provided by the cloud provider, and the provider takes care of the underlying infrastructure, maintenance, and management of the physical resources, allowing users to

focus on deploying and managing their applications and services.

For further results, you can visit the given URL.

<https://www.spiceworks.com/tech/cloud/articles/what-is-public-cloud>

58. **Answer:** C

Explanation: The primary advantages of the public cloud approach are lower cost, scalability, and flexibility.

For further results, you can visit the given URL.

<https://www.pluralsight.com/resources/blog/cloud/the-basic-advantages-of-public-cloud>

59. **Answer** B

Explanation: The private cloud deployment model involves computing resources used exclusively by a business or organization.

For further results, you can visit the given URL.

<https://www.sciencedirect.com/topics/computer-science/cloud-deployment-model>

60. Answer: B

Explanation: Legal compliance and high-level security are reasons for choosing a private cloud deployment.

For further results, you can visit the given URL.

<https://www.linkedin.com/advice/1/why-should-you-choose-private-cloud-deployment-zksef>

61. Answer: C

Explanation: A hybrid cloud allows users to access both public and private cloud resources within a single environment.

For further results, you can visit the given URL.

<https://cloud.google.com/learn/what-is-hybrid-cloud#:~:text=Hybrid%20cloud>

62. Answer: B

Explanation: The primary advantage of a multi-cloud strategy is enhanced redundancy.

For further results, you can visit the given URL.

<https://www.techtarget.com/searchcio/tip/Top-3-benefits-of-multi-cloud-strategy>

63. **Answer:** C

Explanation: Azure Arc is a Microsoft service that extends Azure's management and services to any infrastructure.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-arc/overview>

64. **Answer:** D

Explanation: Azure VMware Solution is designed for running, managing, and migrating VMware-based workloads in Azure.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/products/azure-vmware>

65. **Answer:** D

Explanation: Multi-cloud involves using services and resources from multiple cloud providers.

For further results, you can visit the given URL.

<https://www.techtarget.com/searchcloudcomputing/definition/cloud-computing>

66. **Answer:** B

Explanation: Consumption-based model in cloud computing refers to pay-as-you-go pricing.

For further results, you can visit the given URL.

<https://hginsights.com/glossary/consumption-based-pricing-model#:~:text=Back%20to%20Glossary.,bandwidth%20data%20is%20being%20consumed.>

67. **Answer:** C

Explanation: Not having to predict future resource requirements accurately enables scalability.

For further results, you can visit the given URL.

https://www.google.com/search?q=12.+**In+cloud+computing%2C+what+is+the+main+advantage+of+not+having+to+predict

68. Answer: D

Explanation: Community Cloud allows access to a group of organizations, providing a sharing mechanism.

For further results, you can visit the given URL.

[https://www.google.com/search?
q=12.+**In+cloud+computing%2C+what+is+the+main+adv
antage+of+not+having+to+predict](https://www.google.com/search?q=12.+**In+cloud+computing%2C+what+is+the+main+advantage+of+not+having+to+predict)

69. Answer: C

Explanation: The main advantage of the consumption-based model is pay-as-you-go pricing.

For further results, you can visit the given URL.

[https://hginsights.com/glossary/consumption-based-pricing-
model#:~:text=Back%20to%20Glossary.,bandwidth%20data
%20is%20being%20consumed.](https://hginsights.com/glossary/consumption-based-pricing-model#:~:text=Back%20to%20Glossary.,bandwidth%20data%20is%20being%20consumed.)

70. Answer: A

Explanation: Elasticity refers to dynamically extending or minimizing network resources to respond to workload adjustments.

For further results, you can visit the given URL.

<https://www.vmware.com/topics/glossary/content/cloud-elasticity.html>

71. **Answer:** C

Explanation: Azure Virtual Machine allows dynamic scaling of resources up and down according to demand, ensuring efficient resource management.

For further result you can visit the given URL.

<https://o365hq.com/blog/what-are-the-benefits-of-using-virtual-machines-in-azure/>

72. **Answer:** A

Explanation: Remote Desktop Protocol (RDP) is commonly used to connect to Windows-based Azure Virtual Machines.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/windows/connect-rdp>

73. **Answer:** B

Explanation: Azure Virtual Machine Scale Sets allow you to create and manage a group of identical load-balanced VMs.

For further results, you can visit the given URL.

<https://k21academy.com/microsoft-azure/admin/virtual-machine-scale-sets>

74. **Answer:** B

Explanation: Azure Virtual Machine Scale Sets automatically adjust the number of VM instances based on fluctuations in demand.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machine-scale-sets/overview>

75. **Answer:** B

Explanation: Azure Virtual Desktop offers centralized security management as a key feature.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-desktop/overview>

76. Answer: C

Explanation: Organizations can reduce costs by utilizing Bring Your License (BYOL) for Azure Virtual Desktop.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-redundancy>

77. Answer: D

Explanation: Remote Desktop Protocol (RDP) is used for connecting to another computer through a network connection in Azure Virtual Desktop.

<https://www.linkedin.com/pulse/how-can-microsoft-azure-virtual-desktop-reduce-9xb1e/>

78. Answer: C

Explanation: It is recommended to use a static IP address to prevent changes when connecting to Azure Virtual Machines using RDP.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/windows/connect-rdp>

79. **Answer:** B

Explanation: Multifactor authentication can be activated in Azure Virtual Desktop to fortify user sign-ins.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/windows/connect-rdp>

80. **Answer** C

Explanation: A unique feature of Azure Virtual Desktop is the multi-session deployment of Windows 10 or Windows 11 Enterprise, allowing multiple concurrent users on a single VM.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/windows/connect-rdp>

81. **Answer:** B

Explanation: Committing to a reserved VM instance provides an automatic discount to running VMs that match the reservation scope and attributes.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

82. **Answer:** C

Explanation: The purchase covers only the compute part of your VM usage, including the Windows server license cost.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

83. **Answer:** A

Explanation: Reservation recommendations and checking ConsumedService value help in determining the right VM size.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

84. **Answer:** C

Explanation: Instance size flexibility determines which services get the reserved instance discounts.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

85. **Answer:** C

Explanation: With the setting 'on', reservation discounts apply to various services, including Microsoft. Compute, Microsoft. Batch, and others.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

86. **Answer:** C

Explanation: The meter subcategory doesn't distinguish between VM sizes using premium storage; use the AdditionalInfo field for correct VM size determination.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

87. **Answer:** B

Explanation: Reservation discounts don't apply to A-series, Av2-series, and G-series VMs.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

88. **Answer:** C

Explanation: A quota must be available in the subscription for the new Reserved VM Instance.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

89. Answer: D

Explanation: Azure may limit the purchase of new reservations for a subset of VM sizes due to low capacity in rare circumstances.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

90. Answer: B

Explanation: In the CSP program, only admin agents or sales agents can buy Reserved VM Instances.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

91. Answer: A

Explanation: The correct steps are All services > Reservations > Add > Virtual machine.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

92. **Answer:** C

Explanation: The 'Scope' field specifies the reservation's scope, such as a single subscription or shared scope.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

93. **Answer:** B

Explanation: 'Optimize for' refers to adjusting VM instance size flexibility.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

94. **Answer:** C

Explanation: Available terms for purchasing are one year, three years, and five years.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

95. **Answer:** A

Explanation: The quantity is the number of running VM instances that can get the billing discount.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

96. **Answer:** D

Explanation: The effective price of zero indicates that the usage gets a reservation discount.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

97. **Answer:** B

Explanation: Ownership and scope can be changed without causing a new commercial transaction.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

98. **Answer:** D

Explanation: Splitting and merging reservations help optimize billing and discount distribution.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

99. **Answer:** C

Explanation: The AdditionalInfo field provides correct information about VM size for reservation purchase.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

100. Answer: A

Explanation: The Add More option is available for Enterprise Agreement (EA) subscriptions.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/prepay-reserved-vm-instances>

101. Answer: C

Explanation: The three basic concepts are Revenue, Cost, and Profit.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

102. Answer: B

Explanation: Profit outcome indicates both an increase in revenue and a decrease in costs.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

103. **Answer:** B

Explanation: The examples are labeled as hypothetical to emphasize that they should not be considered a guarantee of returns.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

104. **Answer:** B

Explanation: Partnering with a proven innovator adds credibility to proposed outcomes, helping prevent roadblocks.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

105. **Answer:** D

Explanation: New revenue streams represent innovative opportunities to deliver products differently.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

106. **Answer:** C

Explanation: Cloud computing can help businesses increase revenues from existing revenue streams through global scale and digital reach.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

107. **Answer:** D

Explanation: Cost reduction is the outcome when cloud computing reduces capital expenses.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

108. **Answer:** B

Explanation: Cost avoidance focuses on preventing future refresh cycles.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

109. **Answer:** C

Explanation: Capital expenses are generally non-recurring while operating expenses are recurring costs.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

110. **Answer:** C

Explanation: Sentara Healthcare achieved record cost savings with Azure, eliminating \$54,000 USD in monthly costs.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

111. Answer: B

Explanation: Azure Virtual Network enables the creation of multiple isolated virtual networks.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

112. Answer: C

Explanation: Granularity is achieved by dividing the IP address space into subnets.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

113. Answer: B

Explanation: Assigning a public IP address or using a public load balancer incorporates internet connections.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

114. **Answer:** C

Explanation: Secure communication is achieved through virtual networks and service endpoints.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

115. **Answer:** D

Explanation: The three mechanisms are Point-to-Site VPN, Site-to-Site VPN, and Azure ExpressRoute.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

116. Answer: C

Explanation: Route Tables allow the definition of rules governing traffic direction.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

117. Answer: B

Explanation: Network Security Groups contain multiple inbound and outbound security rules.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

118. Answer: D

Explanation: Virtual Network Peering enables a direct connection between two virtual networks, creating a globally

interconnected network.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

119. **Answer:** B

Explanation: A VPN gateway helps establish private and secure connections between Azure and on-premises environments.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

120. **Answer:** C

Explanation: The "Gateway Type" determines how the VPN gateway will function.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

[vpns.html](#)

121 **Answer:** B

Explanation: RouteBased VPN works on a route tunnel interface, allowing dynamic routing.

For further results, you can visit the given URL.

<https://www.juniper.net/documentation/us/en/software/junos/vpn-ipsec/topics/topic-map/security-route-based-ipsec-vpns.html>

122. **Answer:** B

Explanation: PolicyBased VPN restricts traffic flow to particular network subnets, avoiding overlapping subnets.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

123. **Answer:** A

Explanation: By default, VPN gateways are deployed in an Active/Standby configuration.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

124. **Answer:** C

Explanation: ExpressRoute Failover ensures continuous connectivity during ExpressRoute outages.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

125. **Answer:** D

Explanation: In regions supporting availability zones, VPN gateways can be deployed in a Zone-Redundant configuration.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

126. **Answer:** A

Explanation: Azure ExpressRoute provides a dedicated private connection to Microsoft Cloud.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

127. **Answer:** B

Explanation: ExpressRoute Global Reach facilitates direct communication between on-premises sites.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

128. **Answer:** C

Explanation: ExpressRoute uses the Border Gateway Protocol (BGP) for dynamic routing.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

129. Answer: A

Explanation: In an IPVPN network, Azure is treated as one of the branch offices.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

130. Answer: D

Explanation: Co-locating at a cloud exchange allows establishing a virtual cross-connect to the Microsoft cloud through ExpressRoute.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

131. Answer: C

Explanation: Azure Cosmos DB is highlighted as an AI database in the context of AI-powered applications.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

132. **Answer:** B

Explanation: Azure Cosmos DB accommodates all operational data models, including relational, document, vector, key-value, graph, and table.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

133. **Answer:** A

Explanation: Azure Cosmos DB offers low latency, high availability, and automatic management for app development.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

134. **Answer:** A

Explanation: Automatic scaling enables guaranteed speed at any scale in Azure Cosmos DB.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

135. **Answer:** C

Explanation: Azure Cosmos DB achieves multi-region writes and data distribution with just a button.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

136. **Answer** B

Explanation: Azure Cosmos DB is deeply integrated with Azure Functions, IoT Hub, AKS, App Service, and more.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

137. Answer: D

Explanation: Azure Cosmos DB's guaranteed high availability, high throughput, low latency, and tunable consistency are advantageous for IoT and telematics applications.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

138. Answer: D

Explanation: Manual patching and updates are not mentioned as a key benefit; Azure Cosmos DB offers automatic management.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

139. Answer: B

Explanation: The Azure AI Advantage offer provides a free trial with 40,000 RU/s throughput for existing Azure AI or GitHub Copilot customers.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

140. **Answer:** B

Explanation: RU/s stands for Requested Units per Second, representing the throughput in Azure Cosmos DB.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

141. **Answer:** C

Explanation: The lifetime free tier for Azure Cosmos DB includes the first 1000 RU/s of throughput and 25 GB of storage for free.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

142. **Answer:** B

Explanation: Change feed makes it easy to track and manage changes to database containers.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

143. **Answer:** C

Explanation: The schema-less service automatically indexes all data, regardless of the data model.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

144. **Answer:** B

Explanation: The serverless model offers a cost-effective option for unpredictable or sporadic workloads.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

145. Answer: B

Explanation: The 30-day Free Trial without an Azure subscription allows users to access Azure Cosmos DB for 30 days

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

146. Answer: D

Explanation: Azure Cosmos DB Live TV sessions provide an opportunity to learn more about Azure Cosmos DB.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

147. Answer: C

Explanation: Native vector search is mentioned as an Azure Cosmos DB functionality for seamless integration with Azure AI Services, supporting Retrieval Augmented Generation.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

148. **Answer:** C

Explanation: The Change feed feature in Azure Cosmos DB makes it easy to track and manage changes to database containers, enabling the creation of triggered events with Azure Functions.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

149. **Answer:** C

Explanation: Azure Cosmos DB's integration with Azure AI Services aims for seamless integration to support functionalities like native vector search.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

150. **Answer:** D

Explanation: Azure Cosmos DB offers open-source APIs, multiple SDKs, and schemaless data, making it easier for developers to build applications. The use of open-source APIs allows flexibility in language choice, and SDKs are available for .NET, Java, Node.js, and Python.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>

151. **Answer:** C

Explanation: The Control node is responsible for coordinating parallel queries and optimizing their execution by interacting with the distributed query engine.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

152. **Answer:** B

Explanation: Compute nodes provide the computational power and execute parallel queries in the distributed SQL pool architecture.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

153. **Answer:** C

Explanation: The Data Movement Service (DMS) is responsible for coordinating data movement between Compute nodes.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

154. **Answer:** C

Explanation: A distribution is the basic unit of storage and processing for parallel queries in Synapse SQL.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

155. **Answer:** C

Explanation: Compute power can be sized independently of storage needs in Synapse SQL's dedicated SQL pool.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

156. **Answer:** B

Explanation: DMS coordinates data movement between Compute nodes to ensure accurate parallel query results.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

157. **Answer:** C

Explanation: Hash-distributed tables provide the highest query performance for joins and aggregations on large tables.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

158. **Answer:** B

Explanation: Round-robin tables are suitable for fast data loading, especially for staging tables.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

159. **Answer:** B

Explanation: A replicated table provides fast query performance for small tables by caching a full copy on each compute node.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

160. **Answer:** A

Explanation: Synapse SQL supports sharding patterns such as Hash, Round Robin, and Replicate for distributions.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture>

161. **Answer:** B

Explanation: IoT is a network of physical devices that connect and exchange data over the internet.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

162. Answer: C

Explanation: Azure IoT Hub acts as a central message hub for communication between an IoT application and its devices

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

163. Answer: B

Explanation: Azure IoT Hub scales to support millions of simultaneously connected devices.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

164. Answer: B

Explanation: IoT Hub supports device-to-cloud telemetry, file uploads, and request-reply methods.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

165. **Answer:** D

Explanation: IoT Hub monitoring helps track device creation, connections, and failure

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

166. **Answer:** B

Explanation: Azure Event Grid enables quick reactions to critical events in a scalable and secure manner.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

167. **Answer:** C

Explanation: IoT devices are often embedded, have limited power, and might have intermittent, slow, or expensive

network connectivity.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

168. **Answer:** C

Explanation: The identity registry stores information about devices and modules permitted to connect to the IoT Hub.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

169. **Answer:** C

Explanation: Device-to-IoT Hub communication supports SAS token-based and X.509 certificate authentication

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

170. **Answer:** C

Explanation: The Device Provisioning Service is used to set up and provision many devices at a time

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

171. **Answer:** C

Explanation: The internet connection is secured using Transport Layer Security (TLS).

For further result. You can visit the given URL

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

172. **Answer:** B

Explanation: Azure IoT supports TLS 1.2, TLS 1.1, and TLS 1.0 for communication.

For further result. You can visit the given URL

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

173. **Answer:** B

Explanation: Various communication types include telemetry, file uploads, and request-reply methods.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

174. **Answer:** C

Explanation: Device telemetry involves receiving sensor data and monitoring device health

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

175. **Answer:** C

Explanation: Telemetry can include sensor data, error messages, and information messages from IoT devices.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

176. Answer: C

Explanation: Device properties can be used to send notifications when actions have been completed.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

177. Answer: C

Explanation: IoT Device twins and Plug and Play enable the use of properties in IoT Hub

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

178. Answer: B

Explanation: Device Commands involve executing direct methods on devices

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

179. **Answer:** C

Explanation: IoT Hub integrates with Azure services for machine learning, analytics, and AI.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

180. **Answer** C

Explanation: The built-in endpoint collects data by default using a request-response pattern.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/iot-hub/iot-concepts-and-iot-hub>

181. **Answer:** B

Explanation: Azure Machine Learning Designer allows users to train and deploy ML models without writing any code by using a drag-and-drop interface.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

182. **Answer:** B

Explanation: The Automated machine learning UI simplifies the process of creating automated ML experiments with an easy-to-use interface.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

183. **Answer:** B

Explanation: Data labeling in Machine Learning is used to efficiently coordinate image labeling or text labeling projects, making data annotation easier.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

184. Answer: B

Explanation: Azure Key Vault can be used to save security secrets, such as access information for storage accounts, in ML projects.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

185. Answer: A

Explanation: Azure Synapse Analytics is used to process and stream data with Spark in ML projects

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

186. Answer: D

Explanation: Project operationalization involves automating users' work in an ML pipeline and triggering it on a schedule or HTTPS request.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

187. **Answer:** C

Explanation: Models created in common Python frameworks like PyTorch, TensorFlow, scikit-learn, XGBoost, and others can be operationalized in Azure Machine Learning.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

188. **Answer:** B

Explanation: Automated ML (AutoML) speeds up the process of selecting data featurization and algorithms by automating repetitive tasks.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

189. **Answer:** D

Explanation: Azure Machine Learning compute clusters enable multi-node distributed training for deep learning jobs.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

190. **Answer:** D

Explanation: Real-time and batch scoring (inferencing) involves obtaining predictions from trained models in real-time or batch mode, depending on the deployment scenario.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?view=azureml-api-2#studio>

191. Answer: B

Explanation: The NIST CSF aims to maintain measurement standards and guidance to help organizations assess cybersecurity risk.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

192. Answer: B

Explanation: The main priority of FICIC was to establish standards and practices to manage cybersecurity risk while enabling business efficiency.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

193. Answer: B

Explanation: The FICIC framework references NIST SP 800-53, which is mapped to FedRAMP Moderate Baseline

controls.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

194. **Answer:** B

Explanation: The NIST CSF certification of Office 365 is valid for two years.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

195. **Answer:** D

Explanation: HITRUST provided the NIST CSF letter of certification for Office 365 in July 2019.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

196. **Answer:** B

Explanation: Microsoft can demonstrate compliance through formal audit reports prepared by third parties for the FedRAMP accreditation.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

197. **Answer:** B

Explanation: Participation in the FICIC is voluntary for organizations like Microsoft.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

198. **Answer:** D

Explanation: Organizations are wholly responsible for ensuring compliance with all applicable laws and regulations.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

199. **Answer:** D

Explanation: Services are included in the scope based on market demand, customer feedback, and product lifecycle.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

200. **Answer:** C

Explanation: Microsoft Purview Compliance Manager helps organizations understand their compliance posture and reduce risks by offering assessment templates, including for NIST CSF.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-gb/compliance/regulatory/offering-nist-csf>

201. Answer: C

Explanation: Azure Cloud Shell is a browser-based workstation that provides an automated and authenticated way of managing and deploying Azure resources. It saves the user from manual monitoring and installation of resources.

Option A is not used for the given situation because it is only specific to the command line.

Option B is invalid because it is used for developing mobile Apps.

Option D is invalid because it is responsible for the automatic management of cloud services.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cloud-shell/features>

202. Answer: A

Explanation: Software as a Service (SaaS) delivers the service that the user demands. Cloud runs a single instance of the software and makes it available for all users. Examples of such service delivery models are Google, Dropbox, etc.

All the remaining options are invalid because SaaS is a service used by end customers via a browser. The end-user or customer is not responsible for scaling or deploying the solution.

For further results, you can visit the given URL.

<https://www.fingent.com/blog/cloud-service-models-saas-iaas-paas-choose-the-right-one-for-your-business>

203. Answer: B

Explanation: Azure Event Grid is a beneficial service for any App developer building a real-time application that needs to react to events being in Azure services. Azure Event Grid is a cheap and reliable Azure service that manages the full event routing services.

All the remaining options are invalid for the given situation.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-in/resources/videos/introducing-azure-event-grid/>

204. Answer: C

Explanation: In cloud computing, the software, cloud applications, storage, IT operations, and rented hardware are Operation Expenditures. The usage of the Azure resources, services, deployment of the networks, and building of applications all come in operational expenditure.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/financial-models>

205. Answer: A

Explanation: Azure Virtual Machines do not charge in the “Stopped (Deallocated)” state. The disk associated with a virtual machine is always charged whether the VM is in its current state or not.

For further results, you can visit the given URL.

[https://social.msdn.microsoft.com/Forums/en-US/2c5dc9d8-50ff-409e-a172-df9bcee13435/virtual-machine-stopped-and-deallocated-but-still-charged-every-hour?
forum=WAVirtualMachinesforWindows](https://social.msdn.microsoft.com/Forums/en-US/2c5dc9d8-50ff-409e-a172-df9bcee13435/virtual-machine-stopped-and-deallocated-but-still-charged-every-hour?forum=WAVirtualMachinesforWindows)

206. Answer: C

Explanation: Azure Key Vault stores the secret and password. It allows the sharing of passwords and secrets with others in a hidden form so that nobody can view the actual secret.

Option A is invalid because the Network Security Group (NSG) acts as a resource firewall to prevent network resources from unwanted traffic loads.

Option B is invalid because the DDoS Protection service protects applications against DDoS attacks.

Option D is invalid because Multi-Factor Authentication (MFA) provides a high level of secure access by acquiring

different types of authentication methods.

For further results, you can visit the given URL.

<https://www.winwire.com/azure-key-vault/>

207. Answer: B

Explanation: If an organization wants to deploy a hybrid cloud model, there is no need to shift private model because a hybrid cloud is a combination of public and private clouds. Hybrid cloud infrastructure makes applications and data features publicly and privately available to users. It offers a multi-tenancy approach with secure and private features.

For further results, you can visit the given URL.

<https://searchcloudcomputing.techtarget.com/definition/hybrid-cloud>

208. Answer: A

Explanation: The main benefit of cloud service is that it is free for hardware implementation. All the implementation is done in a cloud environment for acceptable low latency and the fastest service response. Internet users can achieve reliable access to the applications available on the internet with low latency.

Option B is invalid because scalability is the process of increasing and decreasing resources based on demand.

Option C is invalid because Fault tolerance refers to the ability to provide guaranteed services during downtime.

Option D is invalid because Disaster Recovery is a mandatory plan adopted by each IT organization to protect its IT majors. It keeps the running applications available during recovery time and does not harm any other service, whether running on-premises or Azure.

For further results, you can visit the given URL.

<https://www.bjss.com/wp-content/uploads/Low-Latency-Trading-in-a-Cloud-Environment.pdf>

209. Answer: B

Explanation: Azure Information Protection (AIP) provides a way of protecting sharing of resources. Azure Information Protection enables the sharing of files, documents, and sensitive information inside and outside Azure while maintaining full control over that data. It does not protect the server from consecutive user requests simultaneously.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/information-protection/>

210. Answer: D

Explanation: Azure Advisor optimizes Azure resources for high availability, performance, security, and cost. It enables quick access to personalized and actionable recommendations from the Advisor dashboard. Azure Advisor tool presents recommendations to improve security and reduce the cost of Azure resources.

All the remaining options are invalid, as no one is responsible for recommending how to reduce the cost incurred by Azure resources.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/services/advisor/>

211. Answer: A

Explanation: Availability Zones are present within Azure regions. These zones provide highly available protected areas to run applications and data. By using more than one availability zone, the application performance is improved, and the application is protected from data center failure.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

212. Answer: B

Explanation: The scale set service can be used to prevent the Azure resources from failing. Suppose there is an issue found in Azure Virtual Machine; then, virtual machine scale sets can be used to scale VMs and prevent failure. Azure Service Health cannot be used in the given situation; service health is only responsible for the issues alert.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/service-health/>

213. Answer: A

Explanation: Azure Information Protection provides a way of protecting the sharing of resources. Azure Information Protection (AIP) enables the sharing of files, documents, and sensitive information more securely outside the organization.

All the remaining options are invalid because no one is used for sharing the document and email messages.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/information-protection/>

214. Answer: B

Explanation: Azure Cosmos DB is responsible for the entire global distribution of data, and it can automatically scale to meet the demands. Cosmos DB promises a maximum of 9-millisecond latency anywhere in the world. In addition, Azure Cosmos DB can provide various data stores like Mongo DB, Cassandra, etc. It automatically implements schema for applications and indexes all the data and server queries very fast.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cosmos-db/introduction>

215. Answer: C

Explanation: When an Azure Policy is assigned to a particular resource group. The resources in the resource group would remain to exist as it is. The figure shows the policy and assignment details assigned to the resource group “Ips”.

The screenshot shows the Microsoft Azure Policy dashboard. At the top, there's a search bar and a navigation bar with 'Home > Policy'. Below that is a 'Policy' section with a note about the feature launch. The main area displays 'Overall resource compliance' at 99% (154 out of 155) and 'Non-compliant initiatives' at 1 out of 1. A table lists 'Non-compliant policies' (10 out of 99) and 'Non-compliant resources' (1 out of 155). A detailed table shows policy assignments:

Name	Scope	Compliance status	Resource count
ASC Default (subscription)	Pay-As-You-Go	Non-compliant	99% (154 out of 155)
Not allowed resource types	Pay-As-You-Go/Ips	Not started	100% (0 out of 0)

A red box highlights the second row of the table.

The screenshot shows the 'Assignment Details' page for a policy named 'Not allowed resource types'. The page includes a 'View definition' button, an 'Edit assignment' button, and an 'Assign to another scope' button. The assignment details table is as follows:

Name	Not allowed resource types	Scope	Pay-As-You-Go/Ips
Description	--	Excluded scopes	0
Assignment ID	/subscriptions/797152d3-23c4-499f-bfef...	Definition	Not allowed resource types

All the remaining options are invalid for the policy assignment

For further results, you can visit the given URL.

https://portal.azure.com/#blade/Microsoft_Azure_Policy/PolicyMenuBlade/Overview

216. Answer: A

Explanation: Azure region contains multiple data centers for high availability. Applications are running in the network present in the Azure cloud. A company can deploy a set of VMs in multiple regions for high availability. It gives the advantage of improving application performance so that whenever one set of VMs goes down in the region, the other region will automatically run the applications.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/n-tier/multi-region-sql-server>

217. Answer: A

Explanation: Azure Service Health allows monitoring and alerting the issues to Microsoft Azure. Azure Service Health provides complete information about different issues that happen to the Azure resources of an organization. Service Health provides a customizable dashboard that tracks the health of organization resources. This service allows the creation of Azure Service Health alerts to find the issues that

happen in Azure resources. The following figure guides the steps to create the service health alert.

The screenshot shows the 'Service Health - Health alerts' page in the Microsoft Azure portal. The left sidebar includes links for Service issues, Planned maintenance, Health advisories, Security advisories (PREVIEW), History, Resource health, and Alerts. The 'Health alerts' link is highlighted with a red box and the number '1'. The main content area features a search bar, a subscription dropdown set to 'Pay-As-You-Go' with '165 selected', and a table header with columns for ALERT NA..., HEALTH E..., ACTION G..., and RES. A red box labeled '2' highlights the '+ Add service health alert' button.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/service-health/>

218. Answer: C

Explanation: Azure Data Lake Storage is a service specifically designed for big data analytics of data stored on Azure blob storage. Data Lake Storage allows storing relational and non-relational data from any device, video, or web application.

All the remaining options are invalid because no one provides relational and non-relational data analytics.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/data-lake-store/data-lake-store-overview>

219. Answer: B

Explanation: Azure Cosmos DB is responsible for the entire global distribution of data, and it can automatically scale to meet the demands. Cosmos DB promises a maximum of 9-millisecond latency anywhere in the world. In addition, Azure Cosmos DB can provide various data stores like Mongo DB, Cassandra, etc. That's why this database is also called a multi-model database.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cosmos-db/introduction>

220. Answer: A

Explanation: Table storage is a highly available and cheap data-storing solution in Azure. It is a NoSQL database for every day and is used for serverless applications. It is designed for high volumes of data, storing data in key/attributes.

For further results, you can visit the given URL.

https://www.tutorialkart.com/azure_tutorials/what-is-azure-table-storage/

221. Answer: A

Explanation: Azure Virtual Machine Scale Sets is an Azure compute resource that deploys the set of Virtual Machines for the high availability of applications during its peak time. It automatically scales up the group of VMs according to the demands and scales down when needed.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/quick-create-portal>

222. Answer: A

Explanation: Azure Service Health allows monitoring and alerting the issues to Microsoft Azure. Azure Service Health provides complete information about different issues that happen to a company's Azure resource. Azure Service Health provides a customizable dashboard that tracks the health of the company's resources.

The screenshot shows the Microsoft Azure Service Health - Resource health interface. On the left, there's a sidebar with links: Service issues, Planned maintenance, Health advisories (selected), Security advisories (PREVIEW), History (Health history), and Resource health (selected). The main area shows a table with a single row for a virtual machine named 'ips-vm'. A yellow arrow labeled '2' points to the 'ips-vm' entry in the table. Another yellow arrow labeled '1' points to the 'Resource health' link in the sidebar.

The screenshot shows the Microsoft Azure Resource health page for the virtual machine 'ips-vm'. It features a large blue heart icon with a white ECG line. Below it, text reads: 'Setting up Resource health for this resource. Resource health watches your Azure resources to provide details about ongoing and past events that have impacted them. Virtual machine'. There is a 'Learn more about Resource health' link. At the bottom, there's a table titled 'Health history' showing one entry: 'Date' (02/13/2020) and 'Description' (3 health annotation(s)).

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/service-health/>

223. Answer: B

Explanation: Azure Synapse is a data warehouse that blends the data warehouse, big data analytics, and data integration into a unified service that provides end-to-end analytics at a cloud scale. It stores big data of size petabytes and runs queries on relational and non-relational data.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/services/synapse-analytics/>

224. Answer: A

Explanation: Azure Cosmos DB is responsible for the entire global distribution of data, and it can automatically scale to meet the demands. Cosmos DB promises a maximum of 9-millisecond latency anywhere in the world. In addition, Azure Cosmos DB can provide various data stores like Mongo DB, Cassandra, etc. That is why this database is also called a multi-model database.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cosmos-db/introduction>

225. Answer: B

Explanation: Azure file storage service is responsible for files and folders shared in the cloud or on-premises network.

These files contain the company's assets. Azure file storage allows the provision of file storage in which we can deploy shares, which can be from Windows, Linux, and Mac operating system machines.

For further results, you can visit the given URL.

<https://www.serverless360.com/blog/azure-blob-storage-vs-file-storage>

226. Answer: D

Explanation: Azure Key Vault stores the secret and password. It allows sharing of passwords and secrets with others in a hidden form so that nobody can view the actual secret. Azure Key Vault has two primary purposes: centralization and the protection of application secrets, certificates, encryption keys, and secrets backed by using a Hardware Security Module (HSM).

Option A is invalid because the Azure Storage Account allows the storage of data objects, files, and messages.

Option B is invalid because Azure Identity Protection monitors every user's identity in different phases.

Option C is invalid because Microsoft Defender for Cloud allows users to monitor the security features for the Azure resources and on-premises as well.

For further results, you can visit the given URL.

<https://www.winwire.com/azure-key-vault/>

227. Answer: B

Explanation: Microsoft Azure provides a high-availability option for hosting applications across the entire Azure region. The availability zone protects applications and data within a region from data center-level failure. To ensure the 99.99% availability of the application, an application should be made available in multiple zones. If one zone goes down for some reason, the other zone will be available for application. All the zones are in a single Azure region, and the application can deploy in multiple availability zones within the same region.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

228. Answer: A

Explanation: Azure Storage Account is a storage service that stores and manages data in Azure. Azure Storage Account stores application data and objects that can be accessed by the user over the internet using HTTP commands. There are four types of storage services available in Azure that store different types of data objects.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/storage/common/storage-account-overview>

229. Answer: A

Explanation: Azure Hybrid Benefit is a discount program that allows Azure users to get cost benefits when running the Azure virtual machines. This program provides up to 40% discount on the running cost and a discount on Azure Database service.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/hybrid-benefit/faq/>

230. Answer: B

Explanation: Blob storage contains the data in the form of blobs. These blobs are stored in a container within a storage account. The blob stores objects like images, audio, video, and files. Blob storage has different pricing tiers depending on the type of data usage.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/services/storage/blobs/>

231. Answer: A

Explanation: Azure Activity Logs is a great tool to tell who, what and when the operation has been done on Azure resources. A range of data is present in Azure Activity Logs, from Azure Resource Manager operations logs to updates in Azure service health events. This service shows the number of actions that have happened in the last 24 hours. The following figure shows the action happening to Azure VM named “ips-vm”.

The screenshot shows the Microsoft Azure Activity Log interface for a virtual machine named "ips-vm". The log displays five recent operations:

Operation name	Status	Time	Time stamp	Subscription
> Create or Update Virtual Machine	Succeeded	2 min ago	Thu Feb 13 ...	Pay-As-You-Go
> Audit	Succeeded	4 min ago	Thu Feb 13 ...	Pay-As-You-Go
> 'audit' Policy action.	Succeeded	9 min ago	Thu Feb 13 ...	Pay-As-You-Go
> 'audit' Policy action.	Succeeded	15 min ago	Thu Feb 13 ...	Pay-As-You-Go
> Create or Update Virtual Machine	Succeeded	20 min ago	Thu Feb 13 ...	Pay-As-You-Go

From the explanation, all the remaining options are invalid for the given situation.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/view-activity-logs>

232. Answer: A

Explanation: Organizations can deploy different Azure services for their requirement. Multiple Azure services are available within the same availability zones. The availability zone protects applications and data within a region from data center-level failure. The advantage of multiple availability zones is that the application will not be affected by downtime and will be available 99.99% of the time. The organization can deploy Linux and Windows-based Virtual Machine in two or more availability zones and run the application installed in the machine.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

233. Answer: A

Explanation: Azure Application Gateway is a layer 7-based load balancer that manages web applications using HTTPS requests. It is more efficient in delivering web application

services than other gateways. It works on HTTPS rather than IP address/port.

All the remaining options are invalid as no one service is responsible for routing web traffic.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/application-gateway/overview>

234. Answer: A

Explanation: Azure Database Migration Service is a PaaS service offered by Microsoft. This service allows database migration not only from on-premises to Azure but also between the Azure databases. Free and premium tiers are available for database migration. Organizations can migrate databases online or offline depending on the requirement.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/dms/>

235. Answer: A

Explanation: Azure Virtual Machine Scale Sets is an Azure compute resource that deploys the set of Virtual Machines for the high availability of applications during its peak time.

It automatically scales up the group of VMs according to the demands and scales down when needed.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/quick-create-portal>

236. Answer: C

Explanation: Azure Marketplace is an online store with thousands of VMs, developer services, and applications. Cloud-based solutions can easily sell to others using Azure Marketplace. It also enables to development of the applications by seeking help and using tools available in Azure Marketplace.

It is clear from the explanation that all the remaining options are invalid.

For further results, you can visit the given URL.

<https://searchcloudcomputing.techtarget.com/definition/Microsoft-Azure-Marketplace>

237. Answer: A

Explanation: If an organization wants to transfer considerable amounts of data from Azure to an on-premises network, they need to pay extra charges defined by

Microsoft Azure pricing. According to pricing details, Azure allows inbound data transfer free of cost. For the outbound transfer of data, the cost is required. Azure allows only the first 5GB of data transfer between the storage accounts free of cost. However, the large size data requires some amount for the transfer due to extra resources used in the transfers of data.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/details/bandwidth/>

238. **Answer: D**

Explanation: The company's resources and services come in the computing infrastructure and architecture category, which is customarily called Infrastructure as a Service (IaaS) in cloud computing. Azure Storage Account is an IaaS service. A first storage account must be created to use the storage services. The storage account is used to store and manage data in Azure. The Azure storage account is an Azure Infrastructure as a Service.

For further results, you can visit the given URLs.

<https://apprenda.com/library/paas/iaas-paas-saas-explained-compared/>

<https://azure.microsoft.com/en-us/overview/what-is-azure/iaas/>

239. Answer: D

Explanation: A separate virtual network must be implemented to deploy a remote machine. An organization has its own Azure network with different Azure resources. Organizations deploy resources in the network that follow the defined rules and regulations and fulfill the requirements.

All the remaining options are invalid as no one provides the deployment of the machine on a separate network portion.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-overview>

240. Answer: D

Explanation: Azure Monitor is a service that provides a single source for monitoring Azure resources. With Azure Monitor, visualization, and route, the query is possible. We can easily take action on the metrics and logs coming from the resource in Azure.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/services/monitor/>

241. Answer: A

Explanation: Azure load balancer serves the load-balancing feature to the connected virtual machines within Microsoft Azure. It is responsible for managing the network traffic load and enables the use of all VMs for processing. It distributes the traffic load to the Virtual Machine present in the network. The Azure load balancer also delivers high availability and network performance to online applications.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/tutorial-load-balancer>

242. Answer: A and D

Explanation: Azure Free Account offers \$200 credit for the first 30 days to new Azure users. In the last 12 months of the most popular Azure services like Virtual Machines (VM), Databases, Storage accounts, etc., users can always access 25 Azure services for free. It is an excellent option for new Azure users to explore Azure services.

Option B is invalid because there is no need to have a mobile number to create an Azure Free Account.

Option C is invalid because Azure offers 12 months of free access to popular services.

For further results, you can visit the given URLs.

<https://azure.microsoft.com/en-in/offers/ms-azr-0003p/>

<https://azure.microsoft.com/en-in/free/free-account-faq/>

243. Answer: B

Explanation: According to the Azure pricing, no charge is required for inbound data transfer. Within the hybrid cloud infrastructure, a large amount of data can be easily transferred from on-premises to Azure cloud free of cost.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/details/bandwidth/>

244. Answer: B

Explanation: The company's resources and services come in the computing infrastructure and architecture category, which is normally called Infrastructure as a Service (IaaS) in cloud computing. Azure Kubernetes service is used to manage and deploy instances in the container. It also makes

sure that the container is configured correctly and working together. It provides the easiest way to scale and manage application deployment in containers.

All the remaining options are invalid for the given situation.

For further results, you can visit the given URLs.

<https://apprenda.com/library/paas/iaas-paas-saas-explained-compared/>

<https://searchcloudcomputing.techtarget.com/definition/Azure-Kubernetes-Service-AKS>

245. Answer: D

Explanation: High Availability is the feature that makes the application available to end-users. This means one application should be implemented in more than one server. If any of the servers go down for some reason, the backup server with the same application immediately starts working. Therefore, the application remains available 24/7 hours.

Option A is invalid because it ensures quick access to resources by the user over the internet.

Option B is invalid because scalability is the process of increasing and decreasing resources based on demand.

Option C is invalid because Disaster Recovery is a mandatory plan adopted by each IT organization to protect

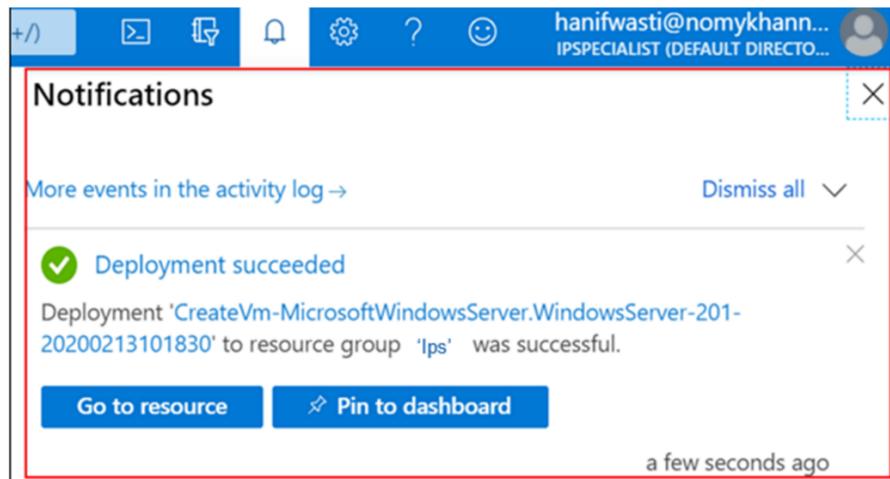
its IT majors. It keeps the running applications available during recovery and does not harm any other service, whether running on-premises or Azure.

For further results, you can visit the given URL.

<https://www.techrepublic.com/blog/the-enterprise-cloud/what-high-availability-for-cloud-services-means-in-the-real-world/>

246. Answer: B

Explanation: The notification tab shows all the deployment and deletion of actions to Azure resources available in the portal. In the given situation, when the deployment of ips-vm is done, the notification tab shows the notice “Deployment succeeded is shown”.



It is clear from the explanation that all the remaining options are invalid as no one provides the notifications.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/templates/deployment-history?tabs=azure-portal>

247. Answer: B

Explanation: A VPN gateway helps establish a private connection between Azure resources and an on-premises environment, offices, the cloud, or other premises within the cloud to establish a private, secure connection.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-vpngateways>

248. Answer: D

Explanation: Azure Cost Management is an Azure service designed to allow the user to gain complete control and visibility of cost spending across Azure resources. This tool also provides cost analysis, cost alerts, Advisor recommendations, and Cloudyn services. The advantage of the budget is to inform the company about the cost spent on Azure resources. Budget in Azure Cost Management also helps to inform about the cost threshold designed by the company. If the cost spent exceeds the threshold level, an alert will be created, and the running resource will not be affected.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cost-management-billing/manage/cost-management-budget-scenario>

249. Answer: B

Explanation: Azure Resource Group provide a managed group of Azure resources like Virtual Machine, SQL Database, storage account, etc. Resource groups allow an easy add and removal of resources and apply role-based access information. Within a resource group, the same type of resources is created depending upon the company's requirements. There is no extra charge required for the creation of resource groups.

For further results, you can visit the given URL.

<https://www.credera.com/blog/credera-site/azure-governance-part-2-using-subscriptions-resource-groups-building-blocks/>

250. Answer: B

Explanation: Business-to-Customer "B2C" is a customer identity and access management solution. "B2C" is an authentication method that enables businesses and other organizations to provide their customers and consumers access to public-facing web and mobile applications. Business to Business "B2B" feature provides services to external partners and guest users of any other organization.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/active-directory-b2c/overview>

251. Answer: C

Explanation: Disaster Recovery is a mandatory plan adopted by each IT organization to protect its IT majors. It keeps the running applications available during recovery time and does not harm any other service, whether running on-premises or Azure.

Option A is invalid because Fault tolerance refers to the ability to provide guaranteed services during downtime.

Option B is invalid because it ensures quick access to resources by the user over the internet.

Option D is invalid because scalability is the process of increasing and decreasing resources based on demand.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/solutions/disaster-recovery/>

252. Answer: B

Explanation: Azure AD Privileged Identity Management is a part of the directory service. It is responsible for managing and monitoring essential resources for a limited period. Azure AD Privileged Identity Management service enables us

not to give permanent access to Azure resources. Instead, we can make a user eligible for privileged access.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure>

253. Answer: A

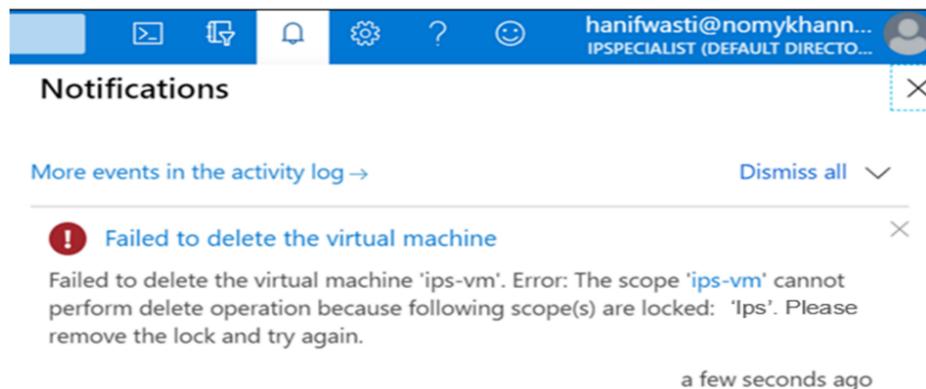
Explanation: When an application is run with different services. Different types of SLAs are defined for each service. This does not mean that the entire application goes down if one of the services fails. The new SLA is involved in an application with a different SLA-based service to ensure high availability. This SLA is called composite SLA. The composite SLA is usually less than the SLA of individual service in an application because as the number of services in an application increases, the potential of service failure also increases. In the given situation, the composite SLA is 99.94%, which is less SLA of the Azure Web App service.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/architecture/framework/resiliency/business-metrics>

254. Answer: B

Explanation: Azure Lock is the resource that protects the Resource group from any unwanted incident. Azure has two types of locks. ReadOnly lock, which allows authorized users to read the resources only. They are unable to make changes to the resources. The second type of lock is Delete, to ensure that the user is not allowed to delete the resource. In the given situation, the user can stop the virtual machine, create a new resource within this group, and change any resource created within “Ips” except to delete.



For further results, you can visit the given URL.

<https://www.mssqltips.com/sqlservertip/6167/locking-resources-in-azure-with-read-only-or-delete-locks/>

255. Answer: A

Explanation: According to the Microsoft documentation, Azure offers a free trial using Azure Free Account. It offers a \$200 credit for the first 30 days to new Azure customers. To explore the Azure service, customers need more time to use

these services, which is a reason Microsoft created an Azure free account. With this account, Azure customers use services for 30 days, and some services are available for 12 months.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/free/free-account-faq/>

256. Answer: A

Explanation: An organization can integrate on-premises networking, identity compute, and data resources with Azure. The hybrid approach brings an advantage when an organization uniquely hosts infrastructure and service in the on-premises network. Azure integration with on-premises comprises those features that can be scaled out and provision the hybrid cloud performance.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/scenarios/hybrid-on-premises-and-cloud>

257. Answer: B

Explanation: Scalability is the ability that manages the traffic load and makes the provision of service without affecting network performance. This feature automatically

allocates resources to meet the performance requirement defined in the Service Level Agreement (SLA).

Option A is invalid because Disaster Recovery is a mandatory plan adopted by each IT organization to protect its IT majors. It keeps the running applications available during recovery time and does not harm any other service, whether running on-premises or Azure.

Option C is invalid because Fault tolerance refers to the ability to provide guaranteed services during downtime.

Option D is invalid because it ensures quick access to resources by the user over the internet.

For further results, you can visit the given URL.

<https://www.vxchnge.com/blog/cloud-computing-scalability-benefits>

258. Answer: A

Explanation: Azure Blueprint enables us to design and package the entire Azure environment, including preferred policy, ARM template, and role-based access assignment. These blueprints are assigned to many subscriptions, which can help us to scale up the use of Azure.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/governance/blueprints/overview>

259. Answer: B and D

Explanation: To meet the business requirements, the two metrics that ensure the customer SLA are Mean time to recover (MTTR) and Mean time between failures (MTBF).

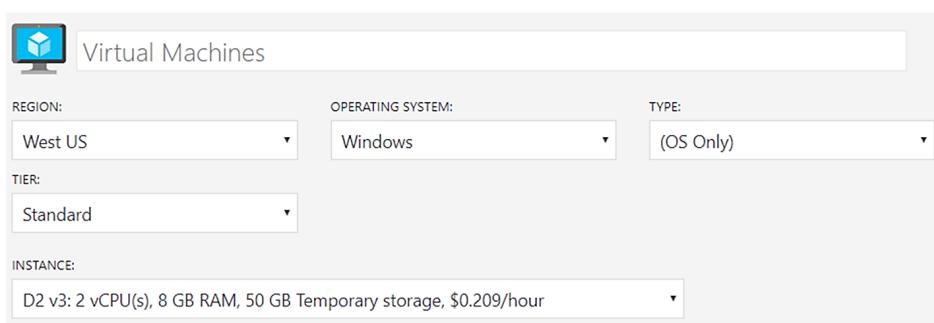
All the remaining options are invalid.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/architecture/framework/resiliency/business-metrics>

260. Answer: C and D

Explanation: If you look at the pricing calculator for an Azure Virtual Machine, you see the different parameters that make up the cost of the Virtual Machine.



There are aspects such as the region, the operating system, the type, the tier, and instance size.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/calculator/>

261. Answer: A

Explanation: The Company can consider buying Reserved Instances to get discounts on the virtual machines' running costs

The Microsoft documentation mentions the following.

You can save money when you commit to an Azure-reserved VM instance. The reservation discount is applied automatically to the number of Virtual Machines matching the reservation scope and attributes. You do not need to assign a reservation to a virtual machine to get the discounts. A reserved instance purchase covers only the compute part of your VM usage. For Windows VMs, the usage meter is split into two separate meters. There is a compute meter, the same as the Linux meter, and a Windows IP meter. The charges you see when you purchase are only for the compute costs. Charges do not include Windows software costs.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/prepay-reserved-vm-instances>

262. Answer: C

Explanation: By using Azure resources such as Virtual Machines and Storage accounts, you can completely dismiss the need to buy any physical infrastructure. This helps you not have any capital expenses when moving to the cloud.

The Microsoft documentation mentions the following.

Cloud computing can reduce capital expenses for hardware and software, setting up data centers, running on-site data centers, and so on. The costs of racks of servers, the round-the-clock electricity for power and cooling, and IT experts for managing the infrastructure add up fast. Shutting down a data center can reduce capital expenditure commitments. This is commonly referred to as "getting out of the data center business." Cost reduction is typically measured in dollars in the current budget, which could span one to five years, depending on how the CFO manages finances.

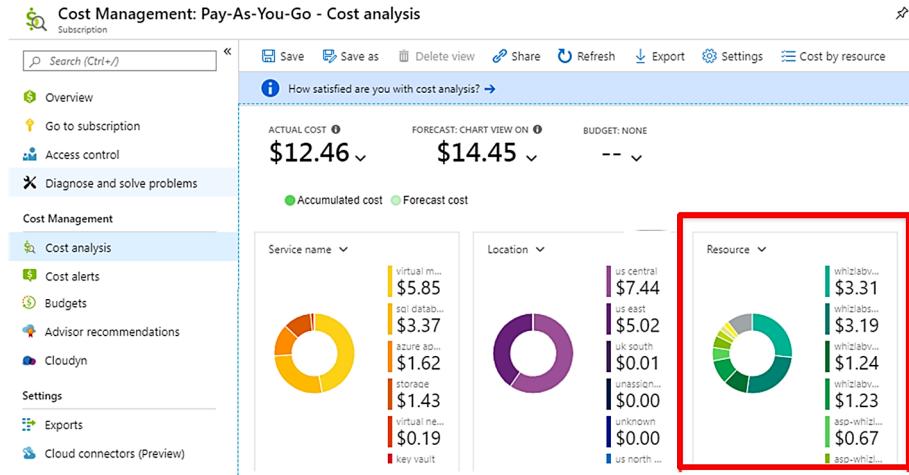
Since this is clearly mentioned in the Microsoft documentation, all other options are incorrect.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/strategy/business-outcomes/fiscal-outcomes>

263. Answer: C

Explanation: If you go to Cost Management, you will get a Cost breakdown by resource.



Since this is clear from the implementation, all other options are incorrect.

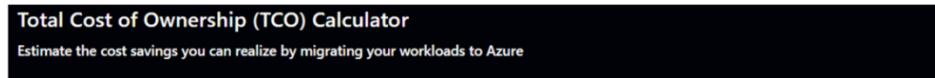
For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cost-management/overview>

264. Answer: A

Explanation: You can use the Total Cost of Ownership calculator to see the cost savings you can achieve by moving workloads to Azure.

A snapshot of the TCO Calculator is shown below.



Define your workloads

Enter the details of your on-premises workloads. This information will be used to understand your current TCO and recommended services in Azure.

Servers

Enter the details of your on-premises server infrastructure. After adding a workload, select the workload type and enter the remaining details.

[+ Add server workload](#)

The other options are invalid because they help cost management after moving to Azure.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/tco/calculator/>

265. Answer: A

Explanation: You can deploy your resources across multiple regions. If a disaster and one region go down, you will still have another available.

The Microsoft documentation mentions the following.

Disaster recovery also refers to minimizing IT services disruption and recovery, but across various data centers that might be hundreds of miles away from one another. In our case, the data centers might reside in various Azure regions within the same geopolitical region or locations as established by you as a customer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/sap-high-availability-architecture-scenarios>

266. Answer: A

Explanation: With the Azure Load Balancer, you can increase the overall availability of your applications.

The Microsoft documentation mentions the following.

With Azure Load Balancer, you can scale your applications and create highly available services. Load Balancer supports both inbound and outbound scenarios. A load balancer provides low latency and high throughput and scales up to millions of flows for all TCP and UDP applications

Key scenarios that you can accomplish using Azure Standard Load Balancer include:

- Load balance internal and external traffic to Azure virtual machines
- Increase availability by distributing resources within and across zones
- Configure outbound connectivity for Azure virtual machines
- Use health probes to monitor load-balanced resources
- Employ port forwarding to access virtual machines in a virtual network by public IP address and port
- Enable support for load-balancing of IPv6

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/load-balancer/load-balancer-overview>

267. Answer: D

Explanation: When deciding on the support for which service to use for web applications, consider using the Azure App Service.

The Microsoft documentation mentions the following.

Azure App Service is an HTTP-based service for hosting web applications, REST APIs, and mobile backends. You can develop in your favorite language, be it .NET, .NET Core, Java, Ruby, Node.js, PHP, or Python. Applications run and scale with ease on both Windows and Linux-based environments.

App Service not only adds the power of Microsoft Azure to your application, such as security, load balancing, autoscaling, and automated management. You can also take advantage of its DevOps capabilities, such as continuous deployment from Azure DevOps, GitHub, Docker Hub, and other sources, package management, staging environments, custom domains, and TLS/SSL certificates.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/app-service/overview>

268. Answer: C

Explanation: The Azure Architectures site has a whole list of reference architectures.

The screenshot shows the Microsoft Azure Architectures page. The left sidebar has a 'Filter by title' dropdown and a 'Browse all Architectures' section with links to Application Architecture Guide, Azure Architecture Framework, Design Patterns, Technologies (AI + Machine Learning, Analytics, Blockchain, Compute, Containers, Databases, Developer Tools, DevOps, High Availability), and more. The main content area is titled 'Azure Architectures' and describes architecture diagrams, reference architectures, example scenarios, and solutions for common workloads on Azure. Below this, the 'AI + Machine Learning' section is shown with two diagrams: 'AI at the Edge with Azure Stack' and 'AI at the Edge with Azure Stack -'. There is also a link to 'Architecture Diagram' and 'Auditing, risk, and compliance'.

Since this is clear from the documentation, all other options are incorrect.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/solutions/architecture/>

269. Answer: D

Explanation: If you want to deploy a repeatable set of resources, consider using the Azure Resource Manager template.

The Microsoft documentation mentions the following.

Resource Manager Template - A JavaScript Object Notation (JSON) file that defines one or more resources to deploy to a resource group, subscription, management

group, or tenant. The template can be used to deploy the resources consistently and repeatedly.

Since this is clear from the documentation, all other options are incorrect.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/resource-group-overview>

270. Answer: B

Explanation: You can use Azure functions to save costs if you want to run small pieces of code.

The Microsoft documentation mentions the following.

Azure Functions is a serverless solution that allows you to write less code, maintain less infrastructure, and save on costs. Instead of worrying about deploying and maintaining servers, the cloud infrastructure provides all the up-to-date resources needed to keep your applications running. You focus on the pieces of code that matter most to you, and Azure Functions handles the rest.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview>

271. Answer: A

Explanation: The Microsoft documentation also has a quick start section on achieving this.

A virtual machine scale set allows you to deploy and manage a set of auto-scaling virtual machines. You can manually scale the number of VMs in the scale set or define rules to autoscale based on resource usages like CPU, memory demand, or network traffic. An Azure load balancer then distributes traffic to the VM instances in the scale set. In this quickstart, you create a virtual machine scale set and deploy a sample application with the Azure CLI.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machine-scale-sets/quick-create-cli>

272. Answer: C

Explanation: You can use Azure Kubernetes to deploy and maintain Microservices-based applications.

The Microsoft documentation mentions the following.

Kubernetes is a rapidly evolving platform that manages container-based applications and their associated networking and storage components. Kubernetes focuses on the application workloads, not the underlying infrastructure components. Kubernetes provides a declarative approach to deployments backed by robust APIs for management operations.

You can build and run modern, portable, microservices-based applications using Kubernetes to orchestrate and manage the availability of the application components. Kubernetes supports both stateless and stateful applications as teams progress through the adoption of microservices-based applications.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/aks/concepts-clusters-workloads>

273. Answer: A

Explanation: Below is the list of compute options available in Azure as given in the Microsoft documentation. Azure SQL database is not part of the list.

If you are unfamiliar with the Azure service selected in the previous step, read the overview documentation to understand the basics of the service.

- **App Service:** A managed service for hosting web apps, mobile app backends, RESTful APIs, or automated business processes.
- **Azure Kubernetes Service (AKS):** A managed Kubernetes service for running containerized applications.
- **Azure Batch:** A managed service for running large-scale parallel and High-Performance Computing (HPC) applications.

- **Container Instances:** The fastest and most straightforward way to run a container in Azure without having to provision any virtual machines or adopting a higher-level service.
- **Azure Functions:** A managed FaaS service.
- **Service Fabric:** A distributed systems platform that can run in many environments, including Azure or on-premises.
- **Virtual Machines:** Deploy and manage VMs inside an Azure virtual network.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/architecture/guide/technology-choices/compute-overview>

274. Answer: D

Explanation: This can be accomplished with the help of the Azure Event Grid service.

The Microsoft documentation mentions the following.

Azure Event Grid allows you to build applications with event-based architectures easily. First, select the Azure resource you would like to subscribe to, and then give the event handler or WebHook endpoint to send the event to. Event Grid has built-in support for events coming from Azure services, like storage blobs and resource groups. Event Grid also has support for your own events using custom topics.

Since this is clear from the documentation, all other options are incorrect.

For more information on the Azure Event Grid service, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/event-grid/overview>

275. Answer: B

Explanation: You can use the Blob service in Azure storage accounts to store video files.

The Microsoft documentation mentions the following.

Azure Blob storage is Microsoft's object storage solution for the cloud. Blob storage is optimized for storing massive amounts of unstructured data. Unstructured data is data that does not adhere to a particular data model or definition, such as text or binary data.

Blob storage is designed for:

- Serving images or documents directly to a browser.
- Storing files for distributed access.
- Streaming video and audio.
- Writing to log files.
- Storing data for backup and restoring disaster recovery and archiving.
- Storing data for analysis by an on-premises or Azure-hosted service.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blobs-introduction>

276. Answer: A

Explanation: Yes, this is possible.

The Microsoft documentation also has an article on this.

Azure Synapse Analytics (formerly SQL Data Warehouse) with DirectQuery allows you to create dynamic reports based on data and metrics you already have in Azure Synapse Analytics. DirectQuery sends queries back to your Azure Synapse Analytics in real-time as you explore the data. Combined with Synapse Analytics's scale, real-time queries enable users to create dynamic reports in minutes against terabytes of data. In addition, the **Build dashboards + reports** link allows users to create Power BI reports using their Synapse Analytics.

When using the Azure Synapse Analytics connector:

- Specify the fully qualified server name when connecting
- Ensure firewall rules for the server are configured to “Allow access to Azure services”
- Every action, such as selecting a column or adding a filter, will directly query the data warehouse
- Tiles are set to refresh approximately every 15 minutes, and refresh does not need to be scheduled. Refresh can be adjusted in the Advanced settings when you connect.

- Q&A is not available for DirectQuery datasets
- Schema changes are not picked up automatically

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/sql-data-warehouse/sql-data-warehouse-get-started-visualize-with-power-bi>

277. Answer: A

Explanation: You can use Elastic pools to efficiently use the costs when having databases with unpredictable usage demands.

The Microsoft documentation mentions the following.

Azure SQL Database elastic pools are a simple, cost-effective solution for managing and scaling multiple databases with varying and unpredictable usage demands. The databases in an elastic pool are on a single server and share a set number of resources at a set price. Elastic pools in Azure SQL Database enable SaaS developers to optimize the price performance for a group of databases within a prescribed budget while delivering performance elasticity for each database.

Since this is clear from the documentation, all other options are incorrect.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/sql-database/sql-database-elastic-pool>

278. Answer: D

Explanation: You would use or create a new data disk. These disks have a maximum capacity of around 32 TIB. The Microsoft documentation mentions the following.

A data disk is a managed disk attached to a virtual machine to store application or other data you need to keep. Data disks are registered as SCSI drives and labeled with your chosen letter. Each data disk has a maximum capacity of 32,767 gibibytes (GiB). The size of the virtual machine determines how many data disks you can attach to it and the type of storage you can use to host the disks.

Since this is clear from the documentation, all other options are incorrect.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machines/windows/managed-disks-overview>

279. Answer: B and C

Explanation: You are charged based on the amount of throughput you assign for the Cosmos DB account and the Storage.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cosmos-db/request-units>

280. Answer: C

Explanation: You can create your network routes using User Defined Routes.

The Microsoft documentation mentions the following.

You can create custom or user-defined (static) routes in Azure to override Azure's default system routes or add additional routes to a subnet's route table. In Azure, you create a route table and then associate the route table with zero or more virtual network subnets. Each subnet can have zero or one route table associated with it. See Azure limits to learn about the maximum number of routes you can add to a route table and the maximum number of user-defined route tables you can create per Azure subscription. If you create a route table and associate it to a subnet, the routes within it are combined with, or overridden, the default routes Azure adds to a subnet by default.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview>

281. Answer: A

Explanation: Azure provides the following authentication methods for both Multi-Factor authentication and self-service password reset. In this, SMS is an authentication method available.

For more information on authentication methods, please visit the below URL-

Authentication method	Primary authentication	Secondary authentication
Windows Hello for Business	Yes	MFA
Microsoft Authenticator app	Yes	MFA and SSPR
FIDO2 security key	Yes	MFA
OATH hardware tokens (preview)	No	MFA
OATH software tokens	No	MFA
SMS	Yes	MFA and SSPR
Voice	No	MFA and SSPR
Password	Yes	

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-authentication-methods>

282. Answer: B

Explanation: Microsoft Defender for Cloud supports VMs and other components like Azure SQL and Storage services, etc.

The Microsoft documentation mentions the following.

Microsoft Defender for Cloud supports virtual machines and servers in different types of hybrid environments:

- Only Azure
- Azure and on-premises
- Azure and other clouds
- Azure, other clouds, and on-premises

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/security-center/security-center-os-coverage>

283. Answer: B

Explanation: You can achieve this requirement with the help of the Azure Key Vault service.

The Microsoft documentation mentions the following.

Azure Key Vaults may be either software-protected or, with the Azure Key Vault Premium tier, hardware-protected by hardware security modules (HSMs). Software-protected keys, secrets, and certificates are safeguarded by Azure using industry-standard algorithms and key lengths. For situations where you require added assurance, you can import or generate keys in HSMs that never leave the HSM boundary. Azure Key Vault uses nCipher HSMs, which Federal Information Processing Standards validate (FIPS) 140-2 Level 2. You can use nCipher tools to move a key from your HSM to Azure Key Vault.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/key-vault/key-vault-overview>

284. Answer: D

Explanation: You can club the policy definitions into one Initiative Definition.

The Microsoft documentation mentions the following.

An initiative definition is a collection of policy definitions tailored to achieve a singular overarching goal. Initiative definitions simplify managing and assigning policy definitions. They simplify by grouping a set of policies as one single item. For example, you could create an Enable Monitoring in Microsoft Defender for Cloud initiative to monitor all the available security recommendations in your Microsoft Defender for Cloud.

Under this initiative, you would have policy definitions such as:

Monitor unencrypted SQL Database in Microsoft Defender for Cloud - For monitoring unencrypted SQL databases and servers.

Monitor OS vulnerabilities in Microsoft Defender for Cloud - For monitoring servers that do not satisfy the configured baseline.

Monitor missing Endpoint Protection in Microsoft Defender for Cloud - For monitoring servers without an installed endpoint protection agent.

Since this is clear from the documentation, all other options are incorrect.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

285. Answer: A

Explanation: The input validation is taken care of in Azure. The script entered in Tags Text Control does not throw any error and would be treated as raw text. Please see the screenshot showing the validation result while creating the Network Security Group.

Create network security group

The screenshot shows the 'Create network security group' wizard in the Azure portal. At the top, a green bar indicates 'Validation passed'. Below it, the 'Review + create' tab is selected. The 'Basics' section shows the following configuration:

Subscription	Azure subscription 1
Resource group	Fnsg
Region	Southeast Asia
name	NetworkSecurityGroup

The 'Tags' section contains a single tag named 'CrossSiteScript' with the value '`<script>Alert('CrossSiteScript')</script>`'.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/security/develop/threat-modeling-tool-input-validation>

286. Answer: B

Explanation: Option A is incorrect because the template is in json format and has an invalid @ character.

Option B is CORRECT as it has a valid json.

Option C is incorrect because the template is in json format and has an invalid # character.

Option D is incorrect because the template is in json format and has an invalid \$ character.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/templates/microsoft.network/applicationsecuritygroups>

287. Answer: C

Explanation: UDR can be created before the creation of the Subnet. But it would be effective only once the route is associated with Subnet.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-udr-overview>

288. Answer: A

Explanation: The newly created Firewall policy can be overridden with the stricter setting.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/firewall-manager/policy-overview>

289. Answer: C

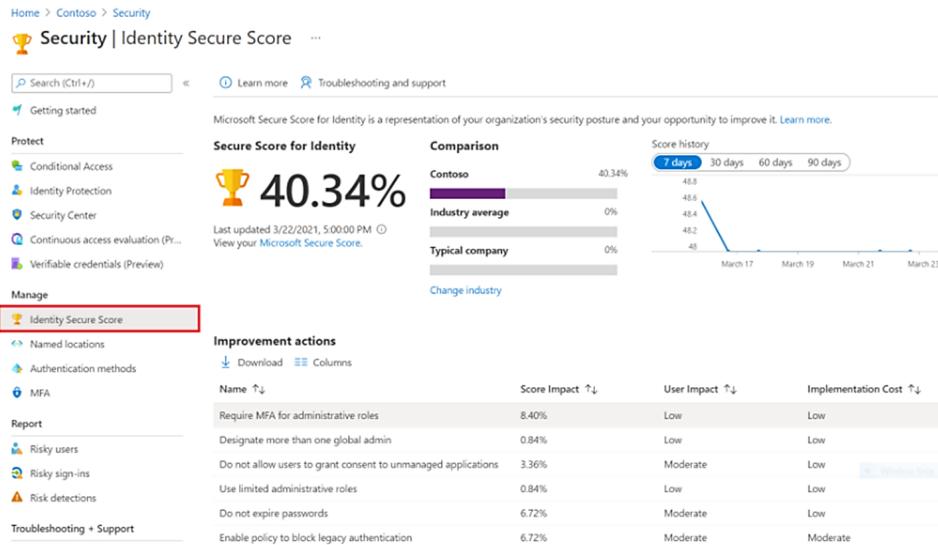
Explanation: By default, DDoS Protection Standard Plan meets both requirements. For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/details/ddos-protection/>

290. Answer: B

Explanation: Azure AD Identity Secure Score helps identify the identity secure score to provide recommendations.

The identity secure score is a percentage that indicates how aligned you are with Microsoft's best practice recommendations for security. Each improvement action in the identity secure score is tailored to your specific configuration.



For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/active-directory/fundamentals/identity-secure-score?branch=pr-en-us-52761>

291. Answer: B and C

Explanation: Option A is incorrect as it is a Service to create policies in Azure

Option B is CORRECT; it is used if the credentials are compromised

Option C is CORRECT; it is considered for any suspicious sign-ins like multiple incorrect login attempts

Option D is incorrect; it ensures that the user registers for MFA

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/tutorial-risk-based-sspr-mfa>

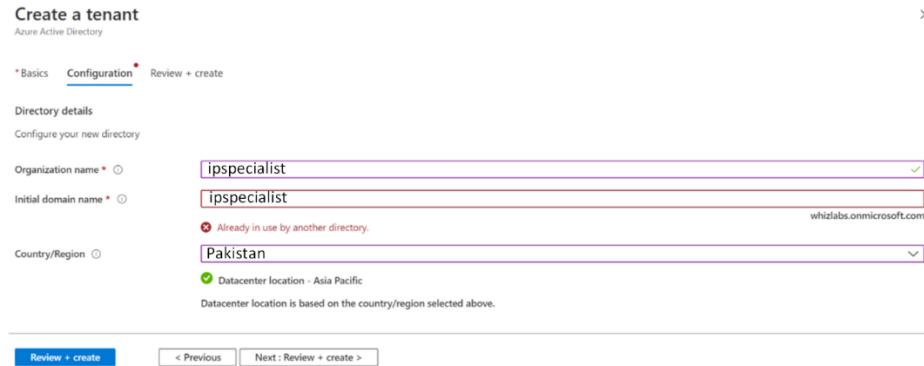
292. Answer: B

Explanation: Option A is incorrect as portal.azure.com is used for login into the Azure portal.

Option B is correct as it is used for the initial domain name should be onmicrosoft.com, and even the diagram included in the explanation indicates the initial domain is onmicrosoft.com.

Option C is incorrect, as azurewebsites.com is used to host the web application in Azure.

Option D is incorrect as microsoft.com is Microsoft's public site.



For further results, you can visit the given URL.

<http://docs.microsoft.com/en-us/azure/active-directory/fundamentals/active-directory-whatis>

293. Answer: D

Explanation: To secure user sign-in events in Azure AD, you can require Multi-Factor Authentication (MFA). Enabling Azure AD Multi-Factor Authentication using Conditional Access policies is the recommended approach to protect users. Conditional Access is an Azure AD Premium P1 or P2 feature that lets you apply rules to require MFA as needed in specific scenarios.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-userstates>

294. Answer: A

Explanation: IP Groups allow you to group and manage IP addresses for Azure Firewall rules in the following ways:

- As a source address in DNAT rules
- As a source or destination address in network rules
- As a source address in application rules

An IP Group can have a single IP address, multiple IP addresses, or one or more IP address ranges.

IP Groups can be reused in Azure Firewall DNAT, network, and application rules for multiple firewalls across regions and subscriptions in Azure. Group names must be unique.

You can configure an IP Group in the Azure portal, Azure CLI, or REST API.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/firewall/ip-groups>

295. Answer: B

Explanation: Option A is incorrect because, using REST API, Secure Score can be retrieved for multiple subscriptions

Option B is CORRECT; please see the reference URL accessing your secure score section

Option C is incorrect because a secure score can be accessed using the REST API

Option D is incorrect because the secure score can be accessed through the REST API

For further results, you can visit the given URLs.

<https://docs.microsoft.com/en-us/azure/security-center/secure-score-security-controls>

<https://docs.microsoft.com/en-us/graph/api/securescore-get?view=graph-rest-1.0&tabs=http>

296. Answer: A

Explanation: Option A is CORRECT, as the Logic App has to be selected while creating an Automation Workflow. Please

view the diagram below.

Option B is incorrect because an existing Logic App has to be selected while creating the Automation Workflow.

Option C is incorrect because a Logic App is required during automation workflow creation.

Option D is incorrect because the Logic App must be created before creating an automation workflow.

Add workflow automation

X

General

Name *

Ips-Workflow ✓

Description

Ips-Workflow Automation

Subscription

Azure subscription 1 ✓

Resource group * ⓘ

Fnsg ✓

Trigger conditions

Choose the trigger conditions that will automatically trigger the configured action.

Select Security Center data types *

Threat detection alerts ✓

Alert name contains ⓘ

DDoS Attack detected for Public IP

Alert severity

All severities selected ✓

Actions

Configure the Logic App that will be triggered.

Choose an existing Logic App or visit the [Logic Apps page](#) to create a new one

Show Logic App instances from the following subscriptions *

2 selected ✓

Logic App name ⓘ

No Logic Apps available ✓

✖ Please select logic app

Refresh

Create

Cancel

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/logic-apps/edit-app-settings-host->

[settings#:~:text=In%20the%20Azure%20portal%20search,s](#)
[ettings%20for%20your%20logic%20app.](#)

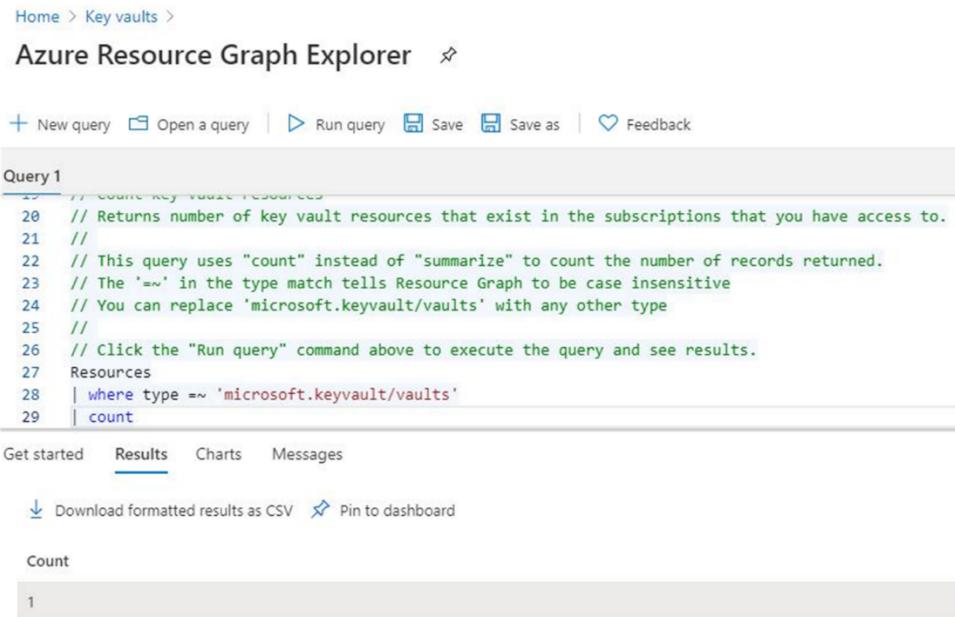
297. Answer: D

Explanation: Option A is incorrect because if there are multiple subscriptions, manual counting is not efficient.

Option B is incorrect because manual counting is required even for the Manage view.

Option C is incorrect because Applying Filters would again lead to a manual count.

Option D is CORRECT because the total count can be retrieved using Azure Resource Graph.



The screenshot shows the Azure Resource Graph Explorer interface. At the top, there are navigation links: Home > Key vaults >. Below that is the title "Azure Resource Graph Explorer". The main area is titled "Query 1" and contains the following PowerShell-like query:

```
// Count key vault resources
20 // Returns number of key vault resources that exist in the subscriptions that you have access to.
21 //
22 // This query uses "count" instead of "summarize" to count the number of records returned.
23 // The '=~' in the type match tells Resource Graph to be case insensitive
24 // You can replace 'microsoft.keyvault/vaults' with any other type
25 //
26 // Click the "Run query" command above to execute the query and see results.
27 Resources
28 | where type =~ 'microsoft.keyvault/vaults'
29 | count
```

Below the query editor, there are tabs: Get started (disabled), Results (selected), Charts, and Messages. Under the Results tab, there is a "Count" section showing the value "1". At the bottom of the interface, there are buttons for "Download formatted results as CSV" and "Pin to dashboard".

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/governance/resource-graph/samples/samples-by-type>

[table?tabs=azure-cli](#)

298. Answer: B and D

Explanation: Option A is incorrect because Cloud Application Administrator is part of Application Administrators.

Option B is CORRECT because please see the referring URL for the AIP roles list.

Option C is incorrect because the Group Administrator has access to Administrative features.

Option D is CORRECT because please see the referring URL for the AIP roles list.

To sign in to the Azure Portal to configure and manage Azure Information Protection:

- Use the following link: <https://portal.azure.com>
- Use an Azure AD account that has one of the following administrator roles:
 - Azure Information Protection Administrator
 - Compliance administrator
 - Compliance data administrator
 - Security administrator
 - Security reader - Azure Information Protection analytics only
 - Global reader - Azure Information Protection analytics only
 - Global administrator

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/information-protection/configure-policy>

299. Answer: B

Explanation: Option A is CORRECT because all the 3 requirements can be implemented using Monitored activities.

Option B is incorrect because only Password Protections options are available.

Option C is incorrect because it is used for Identity Protection only.

Option D is incorrect because it is used only for important resources.

Microsoft Defender for Identity (formerly Azure Advanced Threat Protection, also known as Azure ATP) is a cloud-based security solution that leverages your on-premises Active Directory signals to identify, detect, and investigate advanced threats, compromised identities, and malicious insider actions directed at your organization.

Defender for Identity enables SecOp analysts and security professionals struggling to detect advanced attacks in hybrid environments to:

- Monitor users, entity behavior, and activities with learning-based analytics
- Protect user identities and credentials stored in Active Directory

- Identify and investigate suspicious user activities and advanced attacks throughout the kill chain
- Provide clear incident information on a simple timeline for fast triage

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure-advanced-threat-protection/monitored-activities>

<https://docs.microsoft.com/en-us/defender-for-identity/what-is>

300. Answer: B, C, and D

Explanation: Option A is incorrect because Azure Monitor primarily analyzes the telemetry data.

Option B is CORRECT because please view the reference URL for creating policy assignments.

Option C is CORRECT because please view the reference URL for creating policy assignments.

Option D is CORRECT because please view the reference URL for creating policy assignments.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/governance/policy/assign-policy-portal>

301. Answer: A

Explanation: Option A is CORRECT because please view the reference URL, Active Directory limits section.

Option B is incorrect because it would be effective immediately only on logout\login.

Option C is incorrect because please view the reference URL, Active Directory limits section.

Option D is incorrect because please view the reference URL, Active Directory limits section.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/azure-subscription-service-limits#role-based-access-control-limits>

302. Answer: C

Explanation: There are two types of locks available: delete and read-only.

A Read-only lock on an SQL Database prevents you from deleting or modifying the database. It does not prevent you from creating, updating, or deleting data in the database.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/lock-resources>

303. Answer: A

Explanation: Option A is CORRECT because ITSM Connector exists to integrate Azure with Service now.

Option B is incorrect because it requires custom development to achieve the integration.

Option C is incorrect because it requires custom development to achieve the integration.

Option D is incorrect because a connector exists to integrate Azure and specific ITSM tools.

Home > Advisor | Reliability > Create Advisor Alerts >

Add action group

Action group name * ⓘ
Ips-ActionGroup

Short name * ⓘ
Ips-AG

Subscription * ⓘ
Azure subscription 1

Resource group * ⓘ
Default-ActivityLogAlerts (to be created)

Actions

Action name *	Action Type *	Status	Configure	Actions
CreateIncidentAG	ITSM		Edit details	X
Unique name for the ac...	Select an action type			

[Azure Privacy Statement](#)
[Azure Alerts Pricing](#)

For further results, you can visit the given URL.

<https://azuremarketplace.microsoft.com/en-us/marketplace/apps/Microsoft.ITSMConnector?tab=Overview>

304. Answer: C

Explanation: Option A is incorrect because these are the locks for the resources and not modes.

Option B is incorrect because these are the states of the resources and not modes.

Option C is CORRECT because please see the diagram below.

Option D is incorrect because “Update” is an invalid lock option, and ReadOnly is a lock on a resource.

Assign blueprint

Basics

Subscription(s) ⓘ
Azure subscription 1

Assignment name * ⓘ
Assignment- IpsBluePrint

Location * ⓘ
West US 2

Blueprint definition version * ⓘ
1.0

Lock Assignment

Don't Lock Do Not Delete Read Only

The assignment is not locked. Users, groups, and service principals with permissions can modify and delete deployed resources.
[Learn more](#)

Managed Identity ⓘ
 System assigned

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/governance/blueprints/concepts/resource-locking>

305. Answer: B

Explanation: The most cost-effective plan with these points is the Developer plan.

The Microsoft documentation mentions the following.

Compare support plans

Explore the range of Azure support options and choose the plan that best fits, whether you're a developer just starting your cloud journey or a large organization deploying business-critical, strategic applications.

If you're looking for a comprehensive, organization-wide support plan that includes Azure, Microsoft 365, and Dynamics 365, explore [enterprise support](#).

	Basic	DEVELOPER	STANDARD	PROFESSIONAL DIRECT
	Request support	Purchase support	Purchase support	Purchase support
Price	Included for all Azure customers	\$29 per month	\$100 per month	\$1,000 per month
Scope	Included for all Azure customers	Trial and non-production environments	Production workload environments	Business-critical dependence
Billing and subscription management support	✓	✓	✓	✓
24/7 self-help resources, including Microsoft Learn , Azure portal how-to videos , documentation , and community support	✓	✓	✓	✓
Ability to submit as many support tickets as you need	✓	✓	✓	✓
Azure Advisor —your free, personalized guide to Azure best practices	✓	✓	✓	✓
Azure health status and notifications	✓	✓	✓	✓
24/7 access to technical support by email and phone		Available during business hours <small>by email only</small>	✓	✓

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/support/plans/>

306. Answer: A

Explanation: Yes, everyone has access to the Knowledge Center.

Popular questions

- A SQL database query is slow or unresponsive
 - Learn More
 - [Learn more >](#)
- About ASP.NET Web Deployment using Visual Studio
 - This tutorial series shows you how to deploy (publish) an ASP.NET web application to Azure App Service Web Apps or a third-party hosting provider.
 - [Learn More](#)
 - [Learn more >](#)
- About Azure AD Connect and federation
 - [Learn More](#)
 - [Learn more >](#)

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/resources/knowledge-center/>

307. Answer: B

Explanation:

Azure Service Level Agreements (SLAs) are formal commitments made by Microsoft Azure to ensure the reliability and availability of its cloud services. These SLAs specify the guaranteed uptime percentage for each Azure service, such as Virtual Machines, Blob Storage, and SQL Database, among others. The uptime percentages typically range from 99.9% to higher levels, indicating the acceptable amount of downtime over a specific timeframe. In the event that Azure fails to meet the agreed-upon SLA for a particular service, customers may be eligible for service credits as compensation. It is crucial for users to review the specific SLA for each service, taking note of any exclusions or

conditions, to understand the terms and conditions governing the service's performance and availability. The Azure Service Health Dashboard provides real-time information on service status and incidents, allowing customers to stay informed about the operational status of Azure services.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/support/legal/sla/summary/>

308. Answer: A

Explanation: You can launch a support request via the Azure portal.

The Microsoft documentation mentions the following.

Azure portal for commercial use is:
<https://portal.azure.com>

Since this is clear from the documentation, all other options are incorrect.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-supportability/how-to-create-azure-support-request>

309. Answer: A, B, and C

Explanation: This is provided in the FAQ section for Azure support.

- Who can submit a support request?

The account administrator, service administrator, or co-administrator on the subscription can submit a support request. Additionally any users with 'write permissions' (Owner/Contributor) to a subscription or with the built-in role "Support Request Contributor" will be able to submit and manage a support request related to that given subscription.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/support/faq/>

310. Answer: C

Explanation: You can easily make use of Azure AI Services.

The Microsoft documentation mentions the following.

Azure AI Services are cloud-based services with REST APIs and client library SDKs available to help you build cognitive intelligence into your applications. You can add cognitive features to your applications without having artificial intelligence (AI) or data science skills. Azure AI Services comprise various AI services that enable you to build cognitive solutions that can see, hear, speak, understand, and even make decisions.

Since this is clear from the documentation, all other options are incorrect.

For more information on Azure AI Services, please visit the below URL-

<https://docs.microsoft.com/en-us/azure/cognitive-services/welcome>

Microsoft Azure Machine Learning Studio (classic) is a collaborative, drag-and-drop tool you can use to build, test, and deploy predictive analytics solutions on your data.

<https://docs.microsoft.com/en-us/azure/machine-learning/studio/what-is-ml-studio>

Azure HDInsight is a managed, full-spectrum, open-source analytics service in the cloud for enterprises. You can use open-source frameworks such as Hadoop, Apache Spark, Apache Hive, LLAP, Apache Kafka, Apache Storm, R, and more.

<https://docs.microsoft.com/en-us/azure/hdinsight/hdinsight-overview>

Azure Functions is a solution for easily running small pieces of code or “functions” in the cloud.

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-overview>

311. Answer: B

Explanation: You can make use of Azure DevTest Labs for this requirement.

The Microsoft documentation mentions the following.

DevTest Labs provides the following capabilities to developers working with VMs:

- Create VMs quickly by following fewer than five simple steps.

- Choose from a curated list of VM bases configured, approved, and authorized by the team lead or central IT.
- Create VMs from pre-created custom images with all the software and tools installed.
- Create VMs from formulas that are essentially custom images combined with the latest builds of the software installed when the VMs are created.
- Install artifacts that are extensions deployed on VMs after they're provisioned.
- Set auto-shutdown and auto-start schedules on VMs.
- Claim a pre-created VM without going through the creation process.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-in/azure/devtest-labs/devtest-lab-overview>

312. Answer: A

Explanation: Yes, this is possible with this service.

The Microsoft documentation mentions the following.

IoT Hub is a managed service hosted in the cloud that acts as a central message hub for communications in both directions between an IoT application and its attached devices. You can connect millions of devices and their backend solutions reliably and securely. Almost any device can be connected to an IoT Hub.

Several messaging patterns are supported, including device-to-cloud telemetry, uploading files from devices, and

request-reply methods to control your devices from the cloud. IoT Hub also supports monitoring to help you track creating devices, connecting devices, and device failures.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/iot-hub/about-iot-hub>

313. Answer: A, B, and C

Explanation: Azure Cloud Shell needs the following to operate.

- A resource group
- A storage account
- A file share

You will be prompted for these resources when you start Azure Cloud Shell.

The screenshot shows a dialog box titled "You have no storage mounted". It contains fields for "Subscription" (Pay-As-You-Go), "Cloud Shell region" (East US), and "Resource group" (ips-rg). Under "Storage account", it shows "Create new" selected and "ipsstore2020" entered. Under "File share", it shows "Create new" selected and "demo" entered. A note at the bottom says "Storage accounts are filtered for your selected Cloud Shell region and LRS/GRS/ZRS account types." At the bottom are "Create storage" and "Close" buttons.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cloud-shell/overview>

314. Answer: B

Explanation: You can use the Azure Content Delivery Network for this purpose.

The Microsoft documentation mentions the following.

A content delivery network (CDN) is a distributed network of servers that can efficiently deliver web content to users. CDNs store cached content on edge servers in point-of-presence (POP) locations close to end users to minimize latency.

Azure Content Delivery Network (CDN) offers developers a global solution for rapidly delivering high-bandwidth content to users by caching their content at strategically placed physical nodes worldwide. Azure CDN can also accelerate dynamic content, which cannot be cached, by leveraging various network optimizations using CDN POPs. For example, route optimization to bypass Border Gateway Protocol (BGP).

The benefits of using Azure CDN to deliver website assets include the following:

- Better performance and improved user experience for end-users, especially when using applications requiring multiple round-trips to load content.
- Large scaling to better handle instantaneous high loads, such as the start of a product launch event.
- Distribution of user requests and serving of content directly from edge servers so that less traffic is sent to the origin server.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cdn/cdn-overview>

315. Answer: B

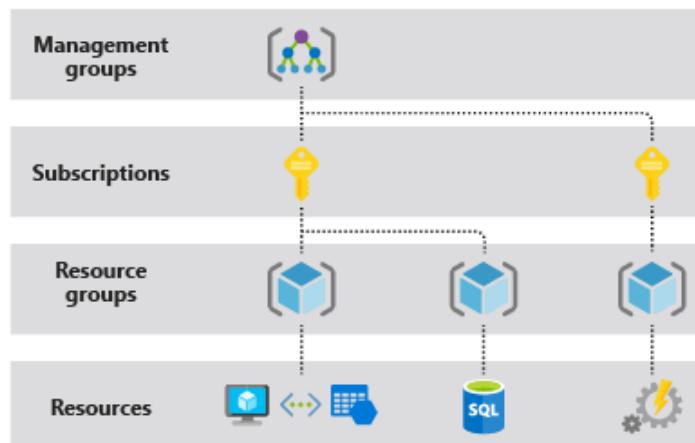
Explanation: We can also utilize other Azure services with the Azure Free Account. We are not restricted to the Azure virtual machine or the Azure storage account service.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/free/>

316. Answer: A

Explanation: Yes, all of the underlying resources get deleted if a resource group is deleted.



For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

317. Answer: B

Explanation: Azure resources can also reach resources in other resource groups. A resource can connect to resources in other resource groups. This situation is expected when the two resources are related but do not share the same lifecycle. For example, you can have a web app that connects to a database in a different resource group.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

318. Answer: B

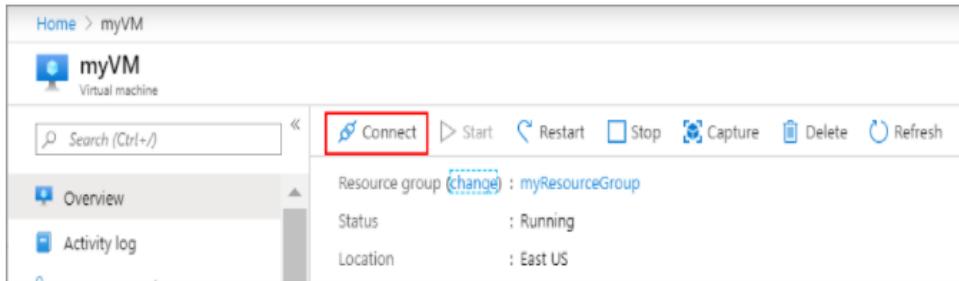
Explanation: You cannot nest resource groups together. Resource groups cannot be nested inside resource groups.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

319. Answer: B

Explanation: A resource in Azure cannot be part of multiple resource groups; it can only be a part of a singular resource group. When we establish a resource such as an Azure virtual machine, it would be a component of a particular resource group.



For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/overview>

320. Answer: A

Explanation: The whole purpose of the General Data Protection Regulation is to represent the way personal data is obtained and managed by organizations. Companies must conduct Data Protection Impact Assessments to guarantee compliance with the regulation.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/compliance/regulatory/gdpr?view=o365-worldwide>

321. Answer: B

Explanation: The General Data Protection Regulation (GDPR) includes new rules for organizations that contribute goods and services to people in the European Union (EU) or

that gather and examine data for EU residents no matter where you or your enterprise are established. This document provides information to assist you in honoring rights and performing obligations under the GDPR when using Microsoft products and services. Hence it applies to EU residents that may not be IN the EU. It applies to countries like the US that have chosen to adopt GDPR.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/compliance/regulatory/gdpr?view=o365-worldwide>

322. Answer: D

Explanation: When we have an object in the Archive access tier, to access the object, it requires to be rehydrated.

The data needs to be rehydrated and not restored; hence Option A is incorrect.

We do not need to back up the data; hence Option B is incorrect.

We cannot access objects in the Archive access tier; hence, Option C is incorrect.

All the remaining options are invalid for the given situation; therefore, option D is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers?tabs=azure-portal>

323. Answer: D

Explanation: We can allow the just-in-time feature in Microsoft Defender for Cloud, as shown in the picture below. We are required to go to Azure Defender and then access the just-in-time feature.



As this is clear from the implementation, all other options are incorrect.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/security-center/security-center-just-in-time?tabs=jit-config-asc%2Cjit-request-asc>

324. Answer: B

Explanation: The customer is only responsible for the security of the data hosted on the Azure virtual machines. All of the other options are the obligation of Azure.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/security/fundamentals/shared-responsibility>

325. Answer: C

Explanation: Option A is incorrect because Elasticity can promptly expand or lower computer processing, memory, and storage resources to satisfy demand.

Option B is incorrect because there will be extra costs for more virtual machines and the bandwidth communication within the virtual machines.

Option D is incorrect because this is an idea used to recover against region-wide failures.

In this scenario, the company strives to gain better availability by hosting its infrastructure across multiple availability zones. Hence Option C is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/availability-zones/az-overview>

326. Answer: C

Explanation: An example of serverless computing is Azure Functions. In this scenario, the underlying compute and the service itself manages infrastructure.

Option A is incorrect because the virtual machine service is an Infrastructure as a Service.

Option B is incorrect because the Azure SQL database - Elastic pool is a platform as a service.

Option D is incorrect because this is used to manage the availability of virtual machines.

Hence, Option C is the correct answer.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/overview/serverless-computing/>

327. Answer: C

Explanation: Management groups are used to arrange subscriptions together. We can then manage access and compliance of the subscription components of the management group.

Option A is incorrect because this is applied to logical group resources

Option B is incorrect because this is applied by Azure to match regions together

Option D is incorrect because this is employed to handle the availability of Virtual Machines

Hence, Option C is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/governance/management-groups/overview>

328. Answer: D

Explanation: The Azure virtual network allows us to host a virtual network in Azure. We can host virtual machines in the virtual network here.

Option A is incorrect because this is utilized for hosting web applications.

Option B is incorrect because this is applied for orchestrating container-based applications.

Option C is incorrect because this is employed for desktop and application virtualization.

Hence, Option D is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-network/virtual-networks-overview>

329. Answer: B

Explanation: We can apply the Azure Kubernetes service to host and orchestrate container-based applications.

Option A is incorrect because this is utilized for hosting web applications.

Option D is incorrect because this is applied to host a private network in Azure.

Option C is incorrect because this is employed for desktop and application virtualization.

Hence, Option B is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/aks/intro-kubernetes>

330. Answer: A

Explanation: We can apply the Azure App service or Web Apps to host web applications. We also can host web applications based on various programming languages.

Option D is incorrect because this is applied to host a private network in Azure.

Option B is incorrect because this is applied for orchestrating container-based applications.

Option C is incorrect because this is employed for desktop and application virtualization.

Hence, Option A is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/app-service/overview>

331. Answer: C

Explanation: We can apply Windows Virtual Desktop for desktop and application virtualization.

Option A is incorrect because this is utilized for hosting web applications.

Option B is incorrect because this is applied for orchestrating container-based applications.

Option D is incorrect because this is applied to host a private network in Azure.

Hence, Option C is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-desktop/overview>

332. Answer: B

Explanation: The Archive Access tier can solely be set at the object level and not at the storage account level. If we move to the configuration segment of a storage account, you can arrange the Blob access tier to either hot or cool. The

hot access tier has higher storage costs than the cool and archive tiers but the lowest access costs. The cool access tier has lower storage and access costs than hot storage. This tier is intended for data remaining in the cool tier for at least 30 days.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blob-storage-tiers?tabs=azure-portal>

333. Answer: D

Explanation: We can use Azure Synapse Analytics to host a data warehouse. We can host our Big Data warehouse and also perform big data analytics.

Option A is incorrect because this is utilized to develop cognitive intelligence in applications.

Option B is incorrect because this is a set of tools for implementing DevOps.

Option C is incorrect because this is employed to develop intelligent bots within applications.

Hence, Option D is the correct answer. All the remaining options are invalid for the given situation.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-overview-what-is>

334. Answer: A

Explanation: You can utilize the Azure AI service to develop applications with artificial intelligence capabilities. There are several services available in Azure AI services based on the following classifications

- Vision
- Speech
- Language
- Decision
- Search

Option D is incorrect because this applies when we host a data warehouse.

Option B is incorrect because this is a set of tools for implementing DevOps.

Option C is incorrect because this is employed to develop intelligent bots within applications.

Hence, Option A is the correct answer. All the remaining options are invalid for the given situation.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cognitive-services/what-are-cognitive-services>

335. Answer: C

Explanation: We can build bots within applications using the Azure Bot service.

Option A is incorrect because this is utilized to develop cognitive intelligence in applications.

Option B is incorrect because this is a set of tools for implementing DevOps.

Option D is incorrect because this applies when we host a data warehouse.

Hence, Option C is the correct answer. All the remaining options are invalid for the given situation.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/bot-service/bot-service-overview-introduction?view=azure-bot-service-4.0>

336. Answer: A

Explanation: Yes, the Azure command-line interface is intended for generating and managing resources in Azure.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/cli/azure/what-is-azure-cli>

337. Answer: A

Explanation: Yes, with PowerShell, we can install the Azure PowerShell modules and work with resources in Azure.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/powershell/azure/?view=azps-6.1.0&viewFallbackFrom=azps-5.1.0>

338. Answer: D

Explanation: We can allocate the underlying physical server as a resource with Azure Dedicated Hosts. We can then host virtual machines on the underlying physical server.

Option A is invalid since this is utilized for hosting web applications.

Option B is invalid since this is employed for hosting container-based applications.

Option C is invalid since this is used as a serverless compute service.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machines/dedicated-hosts>

339. Answer: A

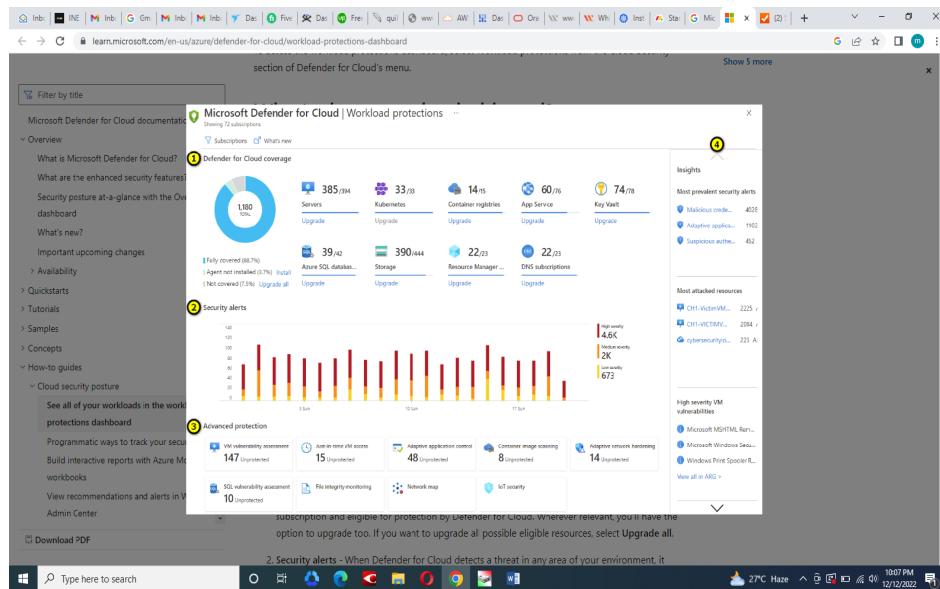
Explanation: Yes, this is the correct service to fulfill this condition. With the aid of the Azure Key Vault service, the

company can store secrets, encryption keys, and certificates. For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/key-vault/general/basic-concepts>

340. Answer: B

Explanation: The company should adopt the Microsoft Defender for Cloud service for this specification. The Azure Key Vault service is adopted to store secrets, encryption keys, and certificates. We can get many recommendations using Microsoft Defender for Cloud service. An example is shown in the picture below.



For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/security-center/security-center-introduction>

341. Answer: B

Explanation: The company should use Network Security Groups to fulfill this condition. With Network Security Groups, we can append inbound rules to limit the inbound traffic to virtual machines. The Microsoft Defender for Cloud service is adopted to strengthen the security posture of resources created as part of our Azure subscription.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-network/network-security-groups-overview>

342. Answer: B

Explanation: This requirement can be fulfilled by the use of Azure Policies. With Azure policies, we can apply an in-built policy to define the SKU size that can be used to launch an Azure virtual machine. As shown in the figure below, an in-built policy can already be utilized for this purpose.

Allowed virtual machine size SKUs

Policy definition

[Assign](#) [Edit definition](#) [Duplicate definition](#) [Delete definition](#) [Export definition](#)

[Essentials](#)

Name	: Allowed virtual machine size SKUs	Definition location :	--
Description	: This policy enables you to specify a set of virtual machine siz...	Definition ID	: /providers/Microsoft.Authorization/policyDefinitions/c...
Available Effects	: Deny	Type	: Built-In
Category	: Compute	Mode	: Indexed

[Definition](#) [Assignments \(0\)](#) [Parameters](#)

```

1  {
2   "properties": {
3     "displayName": "Allowed virtual machine size SKUs",
4     "policyType": "BuiltIn",
5     "mode": "Indexed",
6     "description": "This policy enables you to specify a set of virtual machine size SKUs that your organization can deploy."
7     "metadata": {
8       "version": "1.0.1",
9       "category": "Compute"
10    },
11   "parameters": {
12     "listOfAllowedSKUs": {
13       "type": "Array",
14       "metadata": {
15         "description": "The list of size SKUs that can be specified for virtual machines.",
16         "displayName": "Allowed Size SKUs",
17         "strongType": "VMSKUs"
18      }
19    }
20  }
21}

```

Option A is invalid because this is used to shield resources from accidental deletion.

Option C is invalid because this is applied to orchestrate the deployment of resources.

Option D is invalid because this is adopted to organize resources logically.

Hence, Option B is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/governance/policy/overview>

343. Answer: D

Explanation: Azure resource tags can be utilized to organize resources. We can then observe the billing aspect of the resources based on resource tags.

Option B is invalid because this is used as a governance service for our resources.

Option C is invalid because this is applied to orchestrate the deployment of resources.

Option A is invalid because this is used to shield resources from accidental deletion.

Hence Option D is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/tag-resources?tabs=json>

344. Answer: C

Explanation: Azure Blueprints can be adopted to orchestrate the deployment of multiple resource templates and artifacts.

- Role Assignments
- Policy Assignments
- Azure Resource Manager templates (ARM templates)
- Resource Groups

Option B is invalid because this is used as a governance service for our resources.

Option D is invalid because this is adopted to organize resources logically.

Option A is invalid because this is used to shield resources from accidental deletion.

Hence, Option C is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/governance/blueprints/overview>

345. Answer: D

Explanation: Azure Multi-Factor Authentication can be enabled in a couple of ways. This can be done from Microsoft Entra ID. As shown in the figure below, if we go to the Users section, we can enable Multi-Factor Authentication. The other options are invalid because we cannot enable Multi-Factor Authentication in the other services.

The screenshot shows the 'Users | All users (Preview)' page in the Azure portal. On the left, there's a sidebar with links like 'All users (Preview)', 'Deleted users (Preview)', 'Password reset', 'User settings', 'Diagnose and solve problems', 'Activity', 'Sign-ins', and 'Audit logs'. The main area shows a table with 9 users found. One user row is selected, and a context menu is open over it. The menu items include 'Reset password', 'Multi-Factor Authentication' (which has a red arrow pointing to it), 'Delete user', 'Columns', 'Preview info', 'Preview features', and 'Got feedback?'. The user table columns are 'Name', 'User principal n...', 'Last sign-in', 'Last password change', 'Last MFA', 'Last sign-in location', 'Last sign-in IP address', 'Last sign-in device', and 'Last sign-in browser'.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/active-directory/authentication/concept-mfa-howitworks>

346. Answer: A

Explanation: Using the Total Cost of Ownership calculator, we can understand the TCO for server workloads.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/tco/calculator/>

347. Answer: A

Explanation: We can scroll down and then download the report in the Final Report section for the TCO Calculator. It is also shown in the figure below.

The screenshot shows the final report page of the Azure TCO calculator. At the top, there's a navigation bar with three steps: 1. Define your workloads, 2. Adjust assumptions, and 3. View report. Step 1 is highlighted with a blue dot. Below the navigation is a 'View report' button. Further down are filters for Timeframe (5 Years), Region (East US), Licensing program (Microsoft Online Services Program), and Show Dev/Test Pricing (checked). A bold statement says: "Over 5 year(s) with Microsoft Azure, your estimated cost savings could be as much as \$93,467". Below this is a table comparing costs: "Total on-premises cost over five year(s)" is \$255,534.00, "Total Azure cost over five year(s)" is \$162,067.00, and the "A total savings of \$93,467.00 with Microsoft Azure" is highlighted in green. At the bottom are buttons for "Contact me", "Create a free account", and "Back". There are also "Download", "Share", and "Save" buttons. A red arrow points to the "Download" button. On the right, there's a "DEFINED BY" logo for NUGLEUS RESEARCH.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/tco/calculator/>

348. Answer: B

Explanation: For the logical grouping of resources, we use resource groups.

For availability, we can deploy either across Availability sets or Availability zones.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machines/availability>

349. Answer: B

Explanation: Subscriptions are applied more from a billing aspect for Azure resources.

For availability, we can deploy either across Availability sets or Availability zones.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machines/availability>

350. Answer: A

Explanation: Yes, this is the correct strategy. We can apply either Availability sets or zones to enhance the availability of our virtual machines.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machines/availability>

351. Answer: B

Explanation: Azure virtual network peering connects two Azure virtual networks.

To fulfill the given requirement, the company should consider a Site-to-Site VPN connection or adopting Azure ExpressRoute.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

352. Answer: A

Explanation: Yes, this is the correct approach. Azure ExpressRoute can connect an Azure virtual network to our on-premises data center.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/expressroute/expressroute-introduction>

353. Answer: A

Explanation: Yes, this is the correct approach. An Azure Site-to-Site VPN can be utilized to connect an Azure virtual network to our on-premises data center.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/vpn-gateway/tutorial-site-to-site-portal>

354. Answer: A

Explanation: There are various APIs available with Azure Cosmos DB. One of the APIs that can be utilized is the MongoDB API. We can transfer our current MongoDB workloads to Azure Cosmos DB as well.

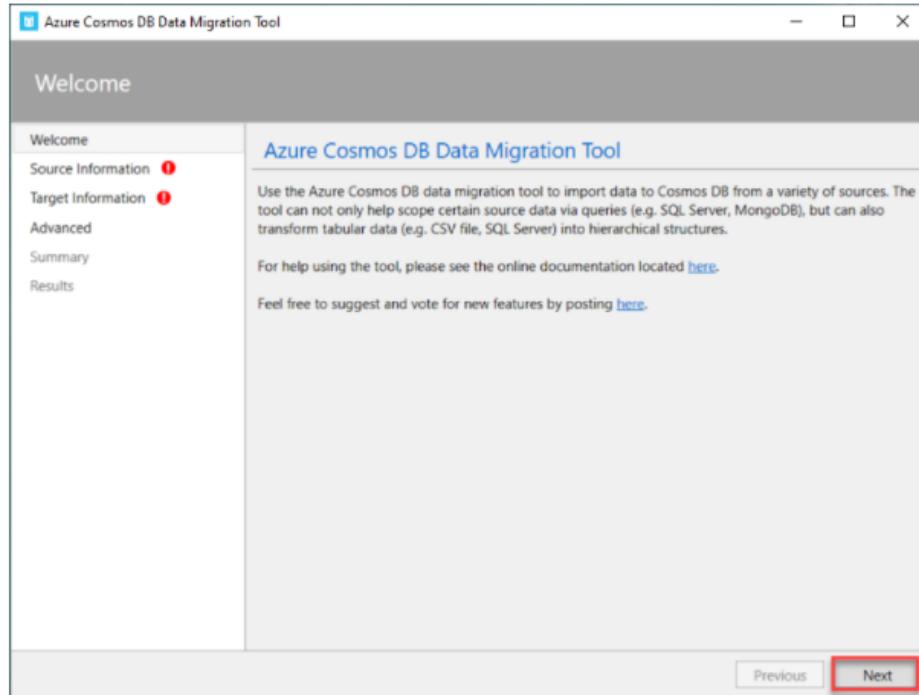
For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cosmos-db/mongodb-introduction>

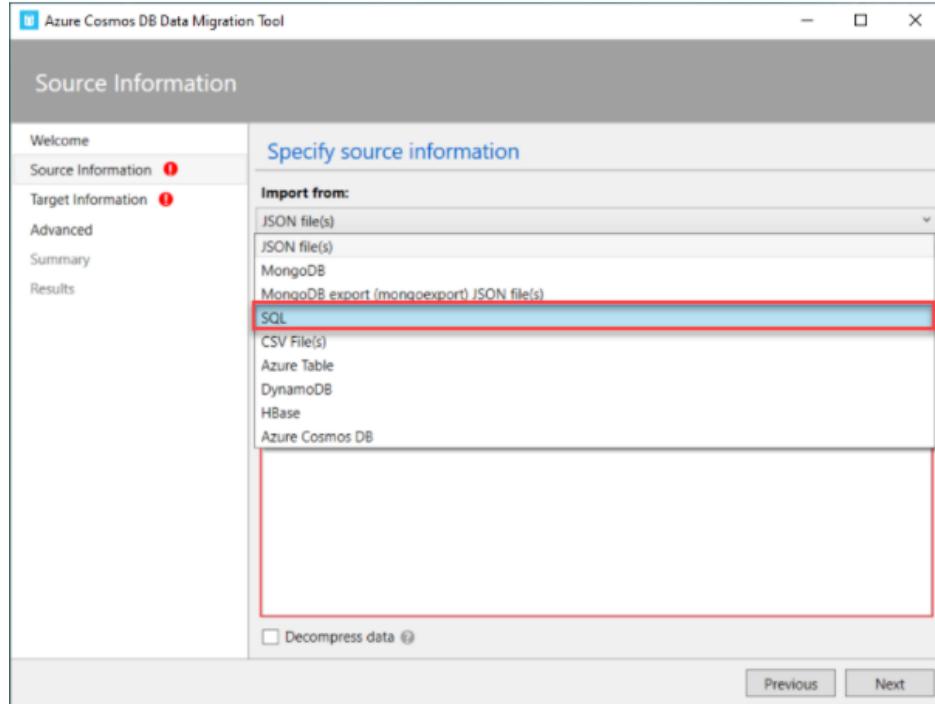
355. Answer: A

Explanation: The Cosmos DB Data Migration tool is an executable tool that needs no installation to commence the migration process. Double-click on the tool's executable file to launch the Data Migration tool, and it will start immediately. When the Data Migration tool launches, the Welcome page will present a section of basic information about that tool, giving external links for the tool

documentation and for proposing new features for that tool, as shown in the figure below:



The Data Migration tool can import data from various data sources into our Cosmos DB container. This covers importing data from JSON files, MongoDB, SQL Server, CSV files, Azure Table storage, Amazon DynamoDB, and Azure Cosmos DB SQL API containers. In this example, we will copy data from a SQL Server instance by selecting the SQL data source, as shown below:



To connect to the SQL Server data source, present the Standard SQL Server connection string that contains the SQL Server name, the database name, and authorized account credentials to connect to that SQL Server instance. Click on the Verify option to authenticate the connecting string and ensure the connection is opened to that SQL Server instance.

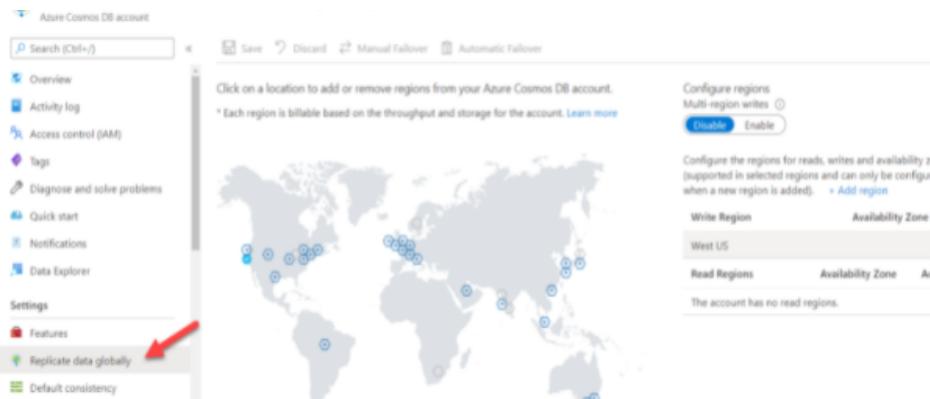
For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cosmos-db/import-data>

356. Answer: A

Explanation: We can replicate our data to multiple locations using Azure Cosmos DB. In an Azure Cosmos DB

account, we can replicate the data onto another location if we go to the “Replicate data globally” section. It is shown in the figure below.



For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/cosmos-db/distribute-data-globally>

357. Answer: B

Explanation: The given requirement can be fulfilled through the use of the Blob service. Using the Blob service, we can store hard disk files for our virtual machines.

Option A is invalid because this is utilized for storing files that can be accessed through the server message block protocol.

Option C is invalid because this is employed as a messaging service.

Option D is invalid because this is used for the storage of key/value pairs.

Hence, Option B is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blobs-introduction>

358. Answer: B

Explanation: The given requirement can be fulfilled through the use of the Blob service. This is the object-level storage service implemented in Azure.

Option A is invalid because this is utilized for storing files that can be accessed through the server message block protocol.

Option C is invalid because this is employed as a messaging service.

Option D is invalid because this is used for the storage of key/value pairs.

Hence, Option B is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blobs-introduction>

359. Answer: A

Explanation: Using the file service, we can host file shares that can be accessed through the Server Message Block protocol.

Option B is invalid because this is an object-level storage service implemented in Azure.

Option C is invalid because this is employed as a messaging service.

Option D is invalid because this is used for the storage of key/value pairs.

Hence, Option A is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/storage/files/storage-files-introduction>

360. Answer: B

Explanation: We can apply the Log Analytics workspace feature in Azure Monitor to store the logs.

Option A is invalid because this is a recommendation engine in Azure.

Option C is invalid because this is applied to present the health of the underlying Azure services.

Option D is invalid because this is utilized as a toolset for implementing DevOps.

Hence, Option B is the correct answer.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/azure-monitor/agents/log-analytics-agent>

361. Answer: B

Explanation: Azure Sphere is a secured, high-level application platform with built-in communication and safety characteristics for internet-connected devices.

Option A is invalid because this is utilized for hosting a data warehouse.

Option C is invalid because this is a data analytics platform.

Option D is invalid because this is an open-source analytics service.

Hence, Option B is the correct answer. All the remaining options are invalid for the given situation.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure-sphere/product-overview/what-is-azure-sphere>

362. Answer: A

Explanation: Yes, this option can be considered. The company can get discounts on costs for Azure virtual

machines by using reserved instances.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/reserved-vm-instances/>

363. Answer: A

Explanation: We can run virtual machines at a lower price using Spot VMs. The only concern is that this is based on unused capacity in Azure. And the virtual machine can be taken back anytime if Azure runs out of space.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/virtual-machines/spot-vms>

364. Answer: B

Explanation: Azure Functions is a serverless compute service. In this scenario, we need to use Azure virtual machines. Therefore, Azure Functions cannot be utilized as a possibility. You can utilize either reserved instances or Spot VMs.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/reserved-vm-instances/>

365. Answer: D

Explanation: The Azure Firewall is a cloud-based service that can defend resources in an Azure virtual network. In this scenario, you can specify network rules and application rules to preserve your Azure Virtual Network.

Option A is invalid since this is employed for threat detection.

Option B is invalid since this is utilized for storing secrets, encryption keys, and certificates.

Option C is invalid since this is used for providing a physical server as a resource.

Hence, Option D is the correct option.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-us/azure/firewall/overview>

366. Answer: D

Explanation: With the added benefit that the secondary copies stored in paired Azure regions are readable, RA-GRS replicates data with the same level of redundancy as normal GRS replication. In other words, you can use a variety of readable endpoints if your application is configured correctly. As a result, read operations now have a 99.99% SLA. Although a single area continues to oversee write and update operations, the SLA for write operations is still 99.9%.

Both methods of GRS replication experience little replication delay due to their asynchronous replication. The LastSyncTime parameter can ensure you access the most recent data version.

For further results, you can visit the given URL.

https://cloud.netapp.com/blog/azure-anf-blg-azure-storage-replication-explained-lrs-zrs-grs-ra-grs#h_h5

367. Answer: C

Explanation: Storage capacity is provided in 50 GB for S6standard and 10 GB for Basic.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/pricing/details/app-service/windows/>

368. Answer: B

Explanation: You can establish a secure connection to your virtual network from a single client computer using a Point-to-Site (P2S) VPN gateway connection. Start the P2S connection from the client's computer to establish it. Telecommuters who want to access Azure VNets from a distant place, such as their home or a conference, can take advantage of this option. When you simply require a few

clients to connect to a VNet, P2S VPN is a practical alternative to S2S VPN.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/vpn-gateway/point-to-site-about>

369. Answer: B

Explanation: Based on identification signals, Microsoft Entra ID uses Conditional Access as a tool to provide (or restrict) access to resources. A more advanced form of MFA (multifactor authentication) is conditional access.

After first-factor authentication is complete, conditional access rules are put into effect. In situations like Denial-of-Service (DoS) attacks, Conditional Access is not meant to be the organization's first line of defense. Still, it can use the signals from these occurrences to control access.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/active-directory/conditional-access/overview>

370. Answer: D

Explanation:

Public Cloud: Third-party cloud service providers use public clouds (like Microsoft Azure) that are owned and

maintained by them to distribute their computing resources, such as servers and storage, over the Internet. The cloud provider manages all equipment, software, and other supporting infrastructure.

Private Cloud: Cloud computing services used solely by one company are called private clouds. An organization's on-site data center may serve as the physical home of a private cloud.

Hybrid Cloud: Cloud computing that mixes on-site infrastructure or a private cloud with a public cloud is known as hybrid cloud computing. Data and apps can travel between the two environments with hybrid clouds.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/resources/cloud-computing-dictionary/what-is-cloud-computing/>

371. Answer: A

Explanation: Your on-premises network and an Azure virtual network are connected via a Site-to-Site VPN gateway connection using an IPsec/IKE (IKEv1 or IKEv2) VPN tunnel. An on-site VPN device with a public IP address visible from the outside is necessary for this kind of connection.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-classic-portal>

372. Answer: D

Explanation: You can deploy apps and data to regional data centers worldwide due to geo-distribution, guaranteeing that your clients always have the greatest performance in their area.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/architecture/hybrid/deployments/solution-deployment-guide-geo-distributed>

373. Answer: B

Explanation: Using virtual machine scale, you can set up a collection of matched and load-balanced virtual machines in Azure.

Imagine that you are in charge of a website where researchers can submit processing-required astronomy photographs. To route requests among many instances of the website, you would typically need to establish an additional service if you duplicated the VM. Scale sets for virtual machines could perform the task for you.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machine-scale-sets/overview>

374. Answer: A

Explanation: For High-Performance Computing (HPC) and massively parallel applications, Azure Batch enables scaling to thousands of virtual machines. Only Azure Batch will support thousands of VMs for HPC, despite other Azure functions allowing you to scale numerous VMs.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/batch/batch-technical-overview>

375. Answer: C

Explanation: The perimeter layer employs Distributed Denial-of-Service (DDoS) protection against massive attacks before they can deny users access to services.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/ddos-protection/ddos-protection-overview>

376. Answer: C

Explanation: A hybrid cloud that mixes on-site infrastructure or a private cloud with a public cloud is known as hybrid cloud computing. Data and apps can travel between the two environments with hybrid clouds.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/resources/cloud-computing-dictionary/what-is-cloud-computing/>

377. Answer: B

Explanation: IaaS, or infrastructure as a service, is a computing infrastructure that can be provided and controlled instantly through the Internet. While you buy, install, set up, and maintain your own software, the IaaS service provider looks after the infrastructure.

Incorrect responses -

Option A is incorrect; users can access and use cloud-based applications over the Internet due to Software as a Service (SaaS). Email, calendars, and office equipment are typical examples. You need an infrastructure in this situation because you have to operate your own apps.

Option C is incorrect; the phrase "Platform as a Service" (PaaS) refers to a complete cloud-based environment for development and deployment. Infrastructure, such as servers, storage, networking, middleware, development tools, Business Intelligence (BI) services, database management systems, and other components, are included in PaaS. The full lifecycle of a web application, including development, testing, deployment, and management, is supported by PaaS.

For further results, you can visit the given URL.

<https://www.bmc.com/blogs/saas-vs-paas-vs-iaas-whats-the-difference-and-how-to-choose/>

378. Answer: A

Explanation: SaaS offers a complete software solution from a cloud service provider that you can pay for as you go. Your users connect to an app you rented for your business over the Internet, typically using a web browser. The service provider's data center houses the supporting infrastructure, middleware, app software, and app data. With a suitable service agreement, the service provider oversees the hardware and software and guarantees the app's accessibility, security, and privacy.

For further results, you can visit the given URL.

<https://www.salesforce.com/in/saas/>

379. Answer: C

Explanation: Examples of Azure PaaS products include Azure App Service and Azure SQL databases. As a result, the goal is achieved by this solution.

For further results, you can visit the given URL.

<https://stackify.com/top-azure-paas-services-developers/>

380. Answer: B

Explanation: The ability of a system to continue operating even if some of its components fail is known as fault tolerance.

You might have servers replicated across different data centers in this scenario.

The level of control you have over ensuring that the data and apps on your virtual machines are always accessible is increased by availability zones. Within an Azure area, Availability Zones are distinct geographical regions. Each zone consists of one or more data centers that have their own independent networking, cooling, and power systems.

There are a minimum of three distinct zones in each enabled region to provide resilience. Applications and data are guarded against failures of the data center by the physical isolation of Availability Zones within a region.

Azure delivers an industry-best 99.99% SLA for VM uptime using Availability Zones. You may safeguard your apps and data from the loss of a data center by architecting your solutions to employ replicated VMs in zones. Replicated apps and data are immediately accessible in another zone if one zone is hacked.

For further results, you can visit the given URL.

<https://hevodata.com/learn/azure-fault-tolerance/#:~:text=Azure%20Fault%20Tolerance%20is%20the,referred%20to%20as%20fault%20tolerance>.

381. Answer: D and E

Explanation: With the public cloud, you can get pay-as-you-go pricing, which means you only pay for the services you actually use.

Self-service administration is available with public clouds. You are responsible for setting up and deploying cloud resources like websites or virtual machines. The cloud

provider is responsible for maintaining the underlying hardware that houses cloud resources.

Option A is incorrect as you lack specialized equipment. Multiple customers could use cloud resources hosted on the same physical hardware because the underlying hardware is shared.

Option B is incorrect, as the public cloud offers secure connections.

Option C is incorrect, as the storage capacity is unlimited. You can have however much storage you want.

For further results, you can visit the given URL.

<https://docs.microsoft.com/en-gb/learn/modules/principles-cloud-computing/4-cloud-deployment-models>

382. Answer: A

Explanation: Elasticity in this context refers to the capacity to increase compute resources when necessary and decrease them when not required to lower costs.

Elasticity is demonstrated by autoscaling.

Elastic computing refers to swiftly increasing or decreasing computer processor, memory, and storage capabilities to suit changing demands without worrying about capacity

planning and engineering for peak consumption. Elastic computing matches the number of resources allocated to the needed amount without interfering with activities. System monitoring tools typically control it. A business does not have to worry about spending money on the purchase or upkeep of extra resources and machinery with cloud elasticity because it would not be charged for underutilized capacity or idle resources.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-in/resources/cloud-computing-dictionary/what-is-elastic-computing/#:~:text=What%20is%20elastic%20computing%20or,engineering%20for%20peak%20usage.>

383. Answer: B

Explanation: With the help of the Platform as a Service (PaaS) Azure App Service, you can build web and mobile applications for any device or platform and access data stored everywhere, including on-premises or in the cloud. Web and mobile functionality formerly provided separately as Azure Websites and Azure Mobile Services are now included in App Service.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/security/fundamentals/paas-applications-using-app-services>

384. Answer: C

Explanation: Private and public clouds are combined to form a hybrid cloud.

The upfront infrastructure purchase, such as new servers, is a capital investment.

Using a hybrid cloud, you can keep using your on-premises servers while adding new ones to the public cloud (Azure, for example). By deploying new servers in Azure rather than on-premises, you can expand your server capacity at a lower capital expense cost.

Incorrect Responses

Option A is incorrect, as a significant amount of operational costs would be incurred by a total transfer of 100 servers to the public cloud (the cost of migrating all the servers).

Option B is incorrect, as building a second data center would cost a lot of capital expenses (the cost of the new infrastructure).

Option D is incorrect because a private cloud is hosted on in-house computers; a significant financial outlay is required (the cost of the new infrastructure to host the private cloud).

For further results, you can visit the given URL.

<https://www.netapp.com/hybrid-cloud/what-is-hybrid-cloud/>

385. Answer: D

Explanation: The public cloud is a shared resource utilized by numerous organizations, each using a fraction of its resources. The cloud service provider manages the hardware resources (servers, infrastructure, etc.). On top of the hardware resources, several companies produce resources like virtual machines and networks.

Incorrect Responses

Option A is incorrect, as no one in public owns the public cloud. In the case of Microsoft Azure, Microsoft owns the cloud.

Option B is incorrect, as the public cloud is not a solution for crowdsourcing. In the case of Microsoft Azure, Microsoft owns the cloud.

Option C is incorrect, as any public member can use public cloud resources for free. You create accounts for your users

to access your cloud resources after purchasing a cloud subscription. You must first create user accounts and grant the necessary access rights before anyone can access your cloud resources.

For further results, you can visit the given URL.

<https://www.techtarget.com/searchcloudcomputing/definition/public-cloud>

386. Answer: A

Explanation: Microsoft Azure, Amazon Web Services, and Google Cloud are three public cloud services.

Google, Amazon, and Microsoft own the hardware. Customers who use public cloud services are known as tenants.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/resources/cloud-computing-dictionary/what-are-private-public-hybrid-clouds/>

387. Answer: B

Explanation: When switching from an on-premises cloud to a public cloud, you will experience the biggest shift from

capital expenditures (purchasing hardware) to operating expenditures (paying for service as you use it). Additionally, this changeover necessitates more careful cost management. The advantage of using the cloud is that you may significantly reduce the cost of a service by simply scaling it back or shutting it down when it is not required.

For further results, you can visit the given URL.

<https://www.unf.edu/~sahuja/cloudcourse/AViewofCloudComputing.ppt>

388. Answer: D

Explanation: A hybrid cloud is made up of both private and public clouds.

Spending money in advance on infrastructure, such as new servers, is known as capital expenditure.

With a hybrid cloud, you can keep using the on-premises servers while adding new servers to the public cloud (Azure, for example). As you are not paying for new servers as you would if you deployed new servers on-premises, adding additional servers via Azure saves capital expenditure costs.

Option A is incorrect, as there would be significant operational costs associated with moving 100 servers

entirely to the public cloud (the cost of migrating all the servers).

Option B is incorrect, as adding a data center would need significant capital outlays (the cost of the new infrastructure).

Option C is incorrect because a private cloud is hosted on in-house computers, and a significant financial outlay would be required (the cost of the new infrastructure to host the private cloud).

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/resources/cloud-computing-dictionary/what-is-hybrid-cloud-computing/#:~:text=A%20hybrid%20cloud%E2%80%94sometimes%20called,to%20be%20shared%20between%20them.>

389. Answer: D

Explanation: The resources in the public cloud are shared by several businesses, each using a piece of them. The cloud provider manages the hardware resources (servers, infrastructure, etc.). On the hardware resources, numerous businesses produce resources like virtual machines and virtual networks.

Option A is incorrect, as the general public does not own the public cloud. Microsoft owns the cloud, in the case of Microsoft Azure.

Option B is invalid, as using the public cloud is not a form of crowdsourcing.

Option C is invalid, as any public member can use public cloud resources for free. You create accounts for your users to access your cloud resources after purchasing a cloud subscription. You must first create user accounts and grant the necessary access rights before anyone can access your cloud resources.

For further results, you can visit the given URL.

<https://www.g2.com/articles/cloud-computing>

390. Answer: B

Explanation: Most Azure regions are paired with a neighboring region at least 300 miles distant and located in the same geographic area (such as the US, Europe, or Asia).

For further results, you can visit the given URL.

<http://azurecloud.expert/2018/01/08/azure-paired-regions/>

391. Answer: C

Explanation: Most current browsers are compatible with Azure Virtual Desktop, which gives access to a hosted version of Windows in the cloud.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/products/virtual-desktop/>

392. Answer: A

Explanation: In accordance with their update and fault domains, availability settings space out VM updates.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/availability-set-overview>

393. Answer: B

Explanation: Azure Blobs is a highly scalable object store for text and binary data. Azure Blobs offers Data Lake Storage Gen2 capabilities for large data analytics.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/blobs/storage-blobs-introduction>

394. Answer: C

Explanation: Your on-premises and cloud Windows servers are kept in bidirectional synchronization with Azure File Sync.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/file-sync/file-sync-planning>

395. Answer: A

Explanation: Microsoft Entra ID employs Conditional Access as a mechanism to provide (or prohibit) access to resources in accordance with identification signals. If your sign-in signals are irregular or originate from an unexpected location, Conditional Access may request a second authentication factor from you.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/active-directory/conditional-access/overview>

396. Answer: D

Explanation: A security concept known as "Zero Trust" guards resources by preparing for the worst-case situation.

For further results, you can visit the given URL.

<https://www.tenfold-security.com/en/zero-trust-architecture-guide/>

397. Answer: C

Explanation: All permissions assigned in the given roles are granted via role-based access control using an allowed model.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/microsoft-365/security/defender-endpoint/rbac>

398. Answer: A

Explanation: Azure policy enables you to define initiatives (groups of rules) and policies that forbid the creation of non-compliant resources.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/governance/policy/overview>

399. Answer: B

Explanation: Artifacts might not have any additional parameters. For example, the "Deploy threat detection on SQL servers" policy needs no additional settings.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/governance/blueprints/concepts/parameters>

400. Answer: D

Explanation: You may expand your Azure compliance and monitoring to your hybrid and multi-cloud deployments using Azure Arc in conjunction with Azure Resource Manager.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/products/azure-arc/>

401. Answer: C

Explanation: You can publish your resource as code using ARM Templates and Azure Blueprints, which automatically

apply policies. Combining the two makes it easier to ensure you are deploying reliable legal resources.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-in/products/arm-templates/>

402. Answer: A

Explanation: The five suggestion categories for Azure Advisor are cost, operational excellence, performance, security, and reliability.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/advisor/advisor-overview>

403. Answer: C

Explanation: Resource Health is an accurate representation of your actual Azure resources. It gives details on the state of each of your particular cloud resources.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/service-health/resource-health-overview>

404. Answer: D

Explanation: Multiple steps are involved in migrating to Microsoft Azure Cloud Adoption Framework; these are:

1. Define Strategy
2. Plan
3. Ready
4. Adopt
5. Govern
6. Manage

The strategy for the adoption should include the following:

1. Recognize motivations

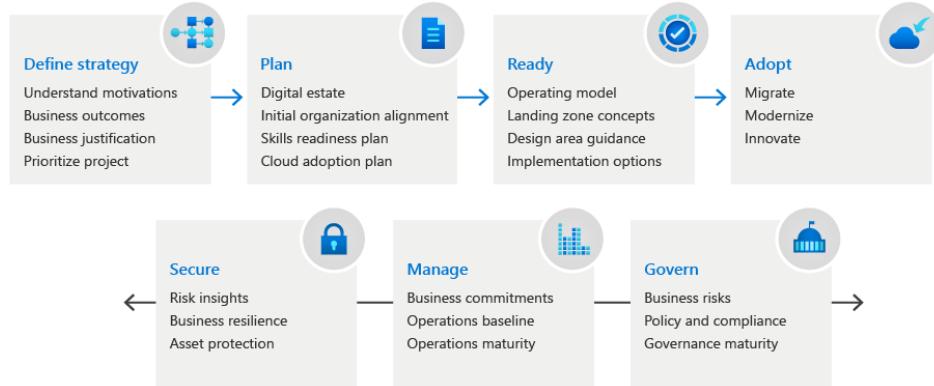
Learn about cloud economics and obtain the technical and financial advice you need to create your cloud strategy and business case.

2. Determine the intended business results.

Determine specific company goals that are in line with your motives. Utilize this form to bring decision-makers and stakeholders together when choosing which outcomes to prioritize.

3. Define your rationale for doing business.

To project the commercial impact of your cloud adoption plan, specify your business case and build a financial model.



For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/>

405. Answer: A

Explanation: Vertical scaling, sometimes called scale up and down, changes the size of a Virtual Machine (VM) in response to a workload. Contrast this behavior with horizontal scaling, often known as scale out and scale in, which changes the number of VMs based on the workload.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machine-scale-sets/virtual-machine-scale-sets-autoscale-overview>

406. Answer: D and E

Explanation: Apply Azure network segmentation patterns.

A standardized enterprise segmentation strategy directs technical teams to systematically segment access using identity, networking, apps, and other access restrictions. By establishing perimeters, segment your network footprint.

These are the main justifications for segmentation:

- The capacity to organize relevant resources that participate in workload processes or provide support
- A lack of resources
- The organization's governance guidelines

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/architecture/framework/security/design-network-segmentation>

407. Answer: B

Explanation: The level of control you have over ensuring that the data and apps on your virtual machines are always accessible is increased by availability zones. Within an Azure region, an Availability Zone is a physically distinct zone. Each supported Azure region has three Availability Zones.

Power, networking, and cooling are all unique to each Availability Zone. Your apps and data are protected from losing a data center if your solutions are designed to use replicated VMs in zones. If one zone is breached, cloned apps and data are immediately accessible in another zone.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-machines/availability>

408. Answer: C and E

Explanation: A container for Azure resources is called an Azure subscription. Additionally, it serves as a limit for billing and resource access permissions. All of the resources in a subscription are billed monthly. Multiple Azure subscriptions may be included in a single Azure tenant (Microsoft Entra ID).

For an Azure solution, a resource group is a container that houses connected resources. All the solution's resources may

be included in the resource group, or you may include only the resources you want to manage collectively.

You must set up an individual subscription for each department to give each administrator access to control the Azure resources used by that department. You can then designate each department administrator as the subscription administrator, giving them control over the subscription's resources.

For further results, you can visit the given URL.

<https://techcommunity.microsoft.com/t5/azure/understanding-azure-account-subscription-and-directory/td-p/34800>

409. Answer: A and B

Explanation: You must set up a VPN (Virtual Private Network) to link the on-premises network to the Azure virtual network to deploy a solution that allows the client computers on your on-premises network to communicate with the Azure virtual machines.

A virtual network gateway is the name of the Azure VPN device. The Azure virtual network must have a specific subnet designated for housing the virtual network gateway. This particular subnet must be named "GatewaySubnet" and is referred to as a dedicated subnet.

Also necessary is a virtual network, which is answer E. The virtual network, however, is already presumed to be in place because we have virtual machines deployed in Azure.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/microsoft-365/enterprise/connect-an-on-premises-network-to-a-microsoft-azure-virtual-network>

410. Answer: C

Explanation: There are quotation limits on several Azure resources. The quota restrictions are there to aid you in keeping tabs on your Azure expenses. The default quota frequently needed to be increased, though.

By submitting a support request, you can ask for an increase in the quota limit. Select "Service and subscription limits (quotas)" as the issue type in the support request, then choose your subscription and the service you want to raise the quota for. You should choose "SQL Database Managed Instance" as the quotation type for this query.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/azure-subscription-service-limits>

411. Answer: B

Explanation: Virtual networks are the name given to networks in Azure. A virtual network may contain numerous subnets and IP address spaces. Within a virtual network, Azure automatically manages traffic routing across several subnets.

According to the query, FinServer has to be on a different network segment. Regarding networking, the only method to distinguish FinServer from the other servers is to put it in a different virtual network.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/virtual-network/network-overview>

412. Answer: D

Explanation: Microsoft's user-friendly cloud file system is called Azure Files. The use of Azure file sharing with Windows and Windows Server is straightforward.

You must either mount an Azure file share, which entails giving it a drive letter, or mount a point path or access it via its UNC path to use it with Windows.

Although this is a feature we are working on, Azure file shares do not currently support Kerberos authentication with your Active Directory (AD) or Microsoft Entra ID identity, unlike other SMB shares you may have interacted with, such as those hosted on a Windows Server, Linux Samba server, or NAS device.

Instead, you must use the storage account key for the storage account that houses your Azure file share to access your Azure file share. A storage account key is an administrator key for a storage account, giving you administrator access to all of the files and folders in the file share you are currently viewing and to all of the file shares and other storage resources (blobs, queues, tables, etc.) in your storage account.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/storage/common/storage-account-keys-manage>

413. Answer: C

Explanation: A subscription is the first item you generate in Azure. An Azure subscription can be compared to an "Azure account." You are charged according to your subscription.

A subscription is a contract with Microsoft for using one or more of its cloud platforms or services, for which fees depend on the number of users or cloud resources used.

- Office 365, Intune/EMS, and Dynamics 365 are SaaS-based cloud services from Microsoft that charge per-user subscription fees.
- Platform as a Service (PaaS) and Infrastructure as a Service (IaaS) cloud services from Microsoft (Azure) bill based on the number of cloud resources used.

You can also use a trial subscription, which expires after a set period or after paying a consumption fee. You can upgrade from a free trial subscription to a premium one.

Microsoft's cloud services allow for multiple subscriptions from one organization.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/microsoft-365/enterprise/subscriptions-licenses-accounts-and-tenants-for-microsoft-cloud-offerings>

414. Answer: A

Explanation: Big data streaming platform and event ingestion service Azure Event Hubs. Millions of events can be received and processed in a single second. Any real-time

analytics provider or batching/storage adaptor can transform and store data supplied to an event hub.

To obtain valuable insights, you may ingest, buffer, store, and process your stream in real-time using Azure Event Hubs. With Event Hubs' partitioned consumer paradigm, you can regulate the processing speed while allowing multiple applications to process the stream simultaneously.

For long-term storage or micro-batch processing, Azure Event Hubs can gather your data near-real time and store it in Azure Blob storage or Azure Data Lake storage.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/event-hubs/event-hubs-about>

415. Answer: B

Explanation: The health of the Azure services and regions you are utilizing is shown to you personally through Azure Service Health. The authenticated Service Health experience understands which services and resources you use. This is the best location for information about outages, planned maintenance, and other health advisories that may impact your service.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/service-health/#:~:text=Azure%20Service%20Health%20is%20a,health%20service%2C%20and%20Resource%20Health>.

416. Answer: C

Explanation: Azure Marketplace is an online store with thousands of IT software applications and services created by top-tier tech firms. The software and services you require to develop new solutions and manage your cloud infrastructure can be found, tested, purchased, and deployed in Azure Marketplace.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/marketplace/azure-marketplace-overview#:~:text=Azure%20Marketplace%20is%20an%20online,and%20manage%20your%20cloud%20infrastructure>.

417. Answer: A

Explanation: Azure availability zones are geographically distinct areas within each Azure region that can withstand minor setbacks. Failures can include hardware and software issues to calamities like earthquakes, floods, and fires.

Redundancy and logical isolation of Azure services allow for failure tolerance. All availability zone-enabled regions have a minimum of three distinct availability zones to provide resilience.

For further results, you can visit the given URL.

<https://learn.microsoft.com/ka-ge/azure/availability-zones/az-overview?context=/azure/virtual-machines/context/context>

418. Answer: C

Explanation: Azure Policy supports organizational standards enforcement and at-scale compliance evaluation. With the ability to drill down to the per-resource and per-policy granularity, it offers an aggregated view for assessing the overall condition of the environment through its compliance dashboard.

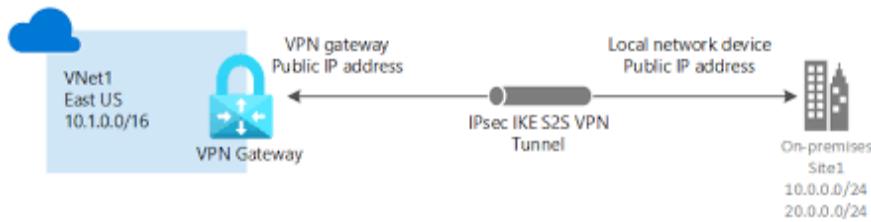
For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/governance/policy/overview>

419. Answer: C

Explanation: Your on-premises network is linked to an Azure virtual network via an IPsec/IKE (IKEv1 or IKEv2) VPN tunnel using a site-to-site VPN gateway connection.

This kind of connection requires a VPN device that is on-site and has been given a public IP address visible from the outside.



For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-howto-site-to-site-classic-portal>

420. Answer: B and E

Explanation: Run Docker containers as needed in a serverless, managed Azure environment. Azure Container Instances provides a solution for any situation that may run in separate containers without orchestration. Run event-driven applications, carry out data processing, launch build jobs, and swiftly deploy from your container development pipelines.

You can manage containers at scale with a fully managed Kubernetes container management and orchestration solution that connects with Microsoft Entra ID.

The Azure Kubernetes Solution is an effective and reasonably priced container orchestration service that enables rapid deployment and management of containerized applications with automatic resource allocation and no need for additional server management.

For further results, you can visit the given URLs.

<https://azure.microsoft.com/en-us/products/kubernetes-service/>

<https://azure.microsoft.com/en-us/products/container-instances/>

421. Answer: B

Explanation: Microsoft's PaaS product is called Azure Data Warehouse, which is currently called Azure Synapse Analytics. Like all Microsoft PaaS services, SQL Data Warehouse has a 99.9% SLA for availability. Because its platform includes high availability features, Microsoft can guarantee 99.9% availability.

For further results, you can visit the given URL.

<https://www.coursehero.com/file/p629jsr0/Azure-Data-Warehouse-now-known-as-Azure-Synapse-Analytics-is-a-PaaS-offering/>

422. Answer: A

Explanation: Azure When you need to integrate apps, data, systems, and services across businesses or organizations, Logic Apps is a cloud solution that can help you schedule, automate, and orchestrate tasks, business processes, and workflows. Whether in the cloud, on-premises, or both, Logic Apps makes it easier to design and develop scalable solutions for app integration, data integration, system integration, Enterprise Application Integration (EAI), and Business-to-Business (B2B) communication.

Here are just a few workloads you can automate with logic apps, for instance:

- Process and route orders between systems that are located on-site and cloud services
- Use Office 365 to send email notifications when events occur in multiple systems, apps, and services
- Upload files to Azure Storage from an SFTP or FTP host
- Watch for tweets about a particular topic, assess the sentiment, and set up tasks or alerts for anything that needs to be reviewed

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/logic-apps/logic-apps-overview>

423. Answer: D

Explanation: Users worldwide will download big video files, according to the query. If people could download the video from servers in their home area, the video playback experience would be better. By utilizing a content delivery network, we can do this.

A dispersed network of servers known as a Content Delivery Network (CDN) can deliver web material to users effectively. To reduce latency, CDNs cache material on edge servers at points of presence (POP) close to end users.

By caching their material at carefully chosen physical nodes around the globe, Azure Content Delivery Network (CDN) provides developers with a global solution for quickly delivering high-bandwidth content to users. By utilizing multiple network improvements with CDN POPs, Azure CDN may accelerate dynamic material that cannot be cached. Route optimization, for instance, to avoid Border Gateway Protocol (BGP).

Using Azure CDN to provide website assets has several advantages, including:

- Better performance and an enhanced user experience for users, particularly when utilizing applications where loading material requires several round trips
- Large scaling to better handle sudden high loads, such as the beginning of an event for a product launch
- User request distribution and content delivery directly from edge servers to reduce traffic to the origin server

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/cdn/cdn-overview>

424. Answer: C and E

Explanation: Data from millions of sensors is provided by IoT Hub (Internet of Things Hub).

A managed service called IoT Hub is hosted in the cloud. It serves as a central messaging node for two-way communication between your IoT application and the devices it controls. Building IoT systems with dependable and secure connections between millions of IoT devices and a cloud-hosted solution backend is possible with Azure IoT Hub. Almost any device can be connected to the IoT Hub.

IoT Hub may direct communications to accounts for Azure Blob Storage and Azure Data Lake Storage Gen2 (ADLS Gen2), two storage services. Cloud Data

Built on top of blob storage, Lake Storage accounts are storage accounts that support hierarchical namespaces. Both of them save their data in blobs.

For further results, you can visit the given URLs.

<https://azure.microsoft.com/en-us/solutions/data-lake/>

<https://azure.microsoft.com/en-us/products/iot-hub/>

425. Answer: A and D

Explanation: The web-based management portal for Azure is called the Azure portal. The Azure portal can be used on an iPhone because it is web-based.

An online command-line called Azure Cloud Shell is used to manage Azure. The Azure portal is where you access the Azure Cloud Shell. The Azure Cloud Shell can be used on an iPhone because it is web-based.

Option C is incorrect, as the Azure CLI may be installed on macOS, but an iPhone cannot.

Option E is incorrect. Although it can be installed on macOS, Windows PowerShell cannot be installed on an iPhone.

Option B is invalid for the given scenario. Azure web apps are not managed using Azure Storage Explorer.

For further results, you can visit the given URL.

<https://portal.azure.com/>

<https://learn.microsoft.com/en-us/cli/azure/install-azure-cli>

426. Answer: A and E

Explanation: Data from millions of sensors is provided by IoT Hub (Internet of Things Hub).

A managed service called IoT Hub is hosted in the cloud. It serves as a central messaging node for two-way communication between your IoT application and the devices it controls. Building IoT systems with dependable and secure connections between millions of IoT devices and a cloud-hosted solution backend is possible with Azure IoT Hub. Almost any device can be connected to the IoT Hub.

IoT Hub may direct communications to accounts for Azure Blob Storage and Azure Data Lake Storage Gen2 (ADLS Gen2), two storage services. Blob storage is the foundation for Azure Data Lake Storage accounts, which support hierarchical namespaces. Both of them save their data in blobs.

For further results, you can visit the given URLs.

<https://azure.microsoft.com/en-us/solutions/data-lake/>

<https://azure.microsoft.com/en-us/products/iot-hub/>

427. Answer: D

Explanation: You can graphically connect datasets and modules on an interactive canvas using Azure Machine Learning Designer to build machine learning models.

For further results, you can visit the given URL.

<https://azure.microsoft.com/en-us/products/machine-learning/designer/>

428. Answer: B

Explanation: You can increase the availability and efficiency of your applications and services with the aid of Azure Monitor. With this comprehensive solution, the telemetry from your cloud and on-premises systems can be collected, analyzed, and used to take action. With this data, you may better comprehend how your apps operate and proactively spot problems before they impact the resources they rely on.

For further results, you can visit the given URL.

<https://learn.microsoft.com/en-us/azure/azure-monitor/overview>

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AWS Certified Big Data - Specialty Study guide



Microsoft Certified: Azure Fundamentals



Microsoft Certified: Azure Administrator



Microsoft Certified: Azure Solution Architect



Microsoft Certified: Azure DevOps Engineer



Microsoft Certified: Azure Developer Associate



Microsoft Certified: Azure Security Engineer



Microsoft Certified: Azure Data Fundamentals



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- CompTIA Network+ Study Guide

- CompTIA Security+ Study Guide
- Ethical Hacking Certification v12 First Edition Study Guide
- Fortinet FortiGate Administrator
- Palo Alto Certified Network Security Administrator