

Cloud Application Developer (Easy)

1. What does Iaas stand for?

- A. Internet as a Service
- B. Infrastructure as a Service
- C. Integration as a Service
- D. Infrastructure as a Solution

ANSWER: B

2. In the context of Cloud Foundry, what does automatic routing refer to?

- A. Manually configuring routes for each application
- B. Using AI to optimize network paths
- C. Routing application traffic through a central server
- D. Automatically creating internet-reachable routes for applications

ANSWER: D

3. Which of the following is a benefit of cloud computing?

- A. Limited scalability
- B. Fast resource access
- C. Increased operational costs
- D. Manual hardware management

ANSWER: B

4. Which IBM Cloud service provides tools for monitoring, analyzing, and optimizing cloud resources and applications?

- A. IBM Cloud Pak for Application
- B. IBM Cloud Security Advisor
- C. IBM Cloud Monitoring
- D. IBM Cloud Virtual Servers

ANSWER: C

5. What does a private cloud typically provide?

- A. Free cloud services for public use
- B. Resources exclusively for a single organization
- C. Resources for multiple organizations
- D. Only public access to data

ANSWER: D

6. In object storage, what role does metadata play?

- A. It limits access to the data
- B. It converts data into block format
- C. It helps customize and optimize data retrieval and analysis
- D. It organizes data into a hierarchical file structure

ANSWER: C

7. What are the benefits of deploying applications across multiple regions in IBM Cloud?

- A. Simplified maintenance and reduced downtime
- B. Improved security and reduced costs
- C. Increased application resilience and reduced latency
- D. Enhanced user interface and experience

ANSWER: C

8. Which of the following practices is important for increasing the reliability of a cloud system?

- A. Ignoring system complexity
- B. Implementing Site Reliability Engineering (SRE) practices
- C. Minimizing security protocols
- D. Limiting automation

ANSWER: D

9. How does IBM Cloud Foundry ensure high availability for applications?

- A. By implementing chaos engineering practices
- B. By using dedicated hardware resources
- C. By supporting full high availability for applications
- D. By limiting application deployments to a single data center

ANSWER: C

10. What is a significant challenge for organizations when moving from on-premise to cloud storage?

- A. Reduced operational costs
- B. Easy scalability
- C. Data migration complexity
- D. Increased storage capacity

ANSWER: C

11. Which IBM Cloud service can be used to analyze logs and monitor the health of a Cloud Foundry application deployed on Kubernetes?

- A. IBM IoT Platform
- B. IBM Watson Studio
- C. IBM Log Analysis and IBM Cloud Monitoring
- D. IBM Blockchain Platform

ANSWER: C

12. Which of the following is a public cloud provider?

- A. Oracle
- B. Dell
- C. Amazon Web Services (AWS)
- D. VMware

ANSWER: C

13. What does Cloud Computing offer?

- A. Only hardware services
- B. Local data storage and applications
- C. Remote access to hardware and software resources
- D. Only software services

ANSWER: C

14. What does IBM Cloud primarily offer?

- A. Only Infrastructure as a Service (IaaS)
- B. Software as a Service (SaaS) only
- C. A combination of IaaS and PaaS
- D. Only Platform as a Service (PaaS)

ANSWER: C

15. What are the three main types of cloud computing?

- A. Global clouds, regional clouds, local clouds
- B. Public clouds, private clouds, hybrid clouds
- C. Managed clouds, dedicated clouds, shared clouds
- D. Virtual clouds, physical clouds, hybrid clouds

ANSWER: B

16. Which of the following is a cloud service delivery model?

- A. Hardware as a Service
- B. Software as a Service
- C. Network as a Service
- D. Database as a Service

ANSWER: B

17. Which cloud storage type is often used for applications requiring low latency and high performance, such as databases?

- A. Object storage
- B. Block storage
- C. Cold storage
- D. File storage

ANSWER: B

18. How do hybrid cloud storage models benefit organizations with highly sensitive data?

- A. By allowing the use of only public cloud storage for all data
- B. By eliminating the need for on-premise storage
- C. By providing flexibility to store sensitive data on-premise and less sensitive data in the cloud
- D. By increasing latency for all data transactions

ANSWER: C

19. Which of the following is a key consideration when choosing a cloud storage provider for compliance with industry regulations?

- A. Variety of services
- B. Compliance support
- C. Cost-effectiveness
- D. Number of global data centers

ANSWER: B

20. What is the primary characteristic of SaaS?

- A. Offering a development platform
- B. Delivering software over the internet on a subscription basis
- C. Providing physical servers for rent
- D. Providing virtual machines and storage

ANSWER: B

21. Which of the following is often considered when assessing cloud security?

- A. Data center location
- B. Compliance with regulations
- C. Cost of services
- D. Service level agreements

ANSWER: B

22. Which service provides a way to monitor application performance in cloud environments?

- A. IBM Log Analysis
- B. IBM Watson Studio
- C. IBM Blockchain Platform
- D. IBM IoT Platform

ANSWER: A

23. What is the primary benefit of IBM Cloud for businesses?

- A. Free access to all cloud services
- B. Low-cost storage solutions
- C. Most open and secure public cloud for business
- D. No need for internet connectivity

ANSWER: C

24. What does IBM Cloud provide for managing and monitoring edge devices?

- A. IBM Cloud Activity Tracker
- B. IBM Edge Application Manager
- C. IBM Cloud Log Analysis
- D. IBM Watson IoT® Platform

ANSWER: D

25. How many categories of services are offered in IBM Cloud?

- A. 14
- B. 12
- C. 16
- D. 18

ANSWER: C

26. What is the main purpose of a data center?

- A. To centralize IT operations and equipment for data and application storage
- B. To provide customer support
- C. To manage customer service
- D. To host marketing and sales data

ANSWER: A

27. Which scaling method is typically used to handle unpredictable or irregular traffic spikes?

- A. Manual Scaling
- B. Resource-Based Scaling
- C. Schedule-Based Scaling
- D. Vertical Scaling

ANSWER: B

28. Who is responsible for hardware maintenance in cloud computing?

- A. The cloud vendor
- B. The operating system provider
- C. The local IT team
- D. The user

ANSWER: A

29. Which IBM Cloud service is a PaaS for Java, Node, PHP, Python, Ruby, Swift, and Go applications?

- A. IBM Cloud Functions
- B. Cloud Foundry
- C. IBM Cloud Code Engine
- D. IBM Cloud Bare Metal Servers

ANSWER: B

30. What is the relationship between resiliency, robustness, and availability in cloud reliability architecture?

- A. Resiliency is independent of system failures
- B. Robustness has no impact on availability
- C. Availability depends solely on the number of system components
- D. Resiliency and robustness determine the availability of each component

ANSWER: D

31. What advantage does cloud computing offer in terms of accessibility?

- A. Restricted access to data and applications
- B. Broad network access from various devices
- C. Limited geographic availability
- D. Dependence on specific hardware for access

ANSWER: B

32. What is a key advantage of using semi-automated scaling compared to manual scaling?

- A. It reduces manual labor and potential errors
- B. It eliminates the need for virtual servers
- C. It provides unlimited resources without cost implications
- D. It does not require any pre-defined images

ANSWER: A

33. What is the primary function of IBM Cloud Activity Tracker?

- A. Device management and monitoring
- B. Dashboard to monitor and analyze events in IBM Cloud
- C. Secure hardware to physically ship data to IBM Cloud
- D. Traffic flow management for cloud applications

ANSWER: B

34. How many data centers does IBM Cloud have globally?

- A. 60
- B. 30
- C. 50
- D. 80

ANSWER: A

35. Which IBM Cloud service offers managed SQL database solutions?

- A. IBM Cloud Databases for Redis
- B. IBM Cloud Databases for MongoDB
- C. IBM Cloud Databases for PostgreSQL
- D. IBM Cloud Databases for Elasticsearch

ANSWER: C

36. Which feature of fault tolerance allows DHCP servers to handle conflicts when connected to the same IP subnet?

- A. Load balancing
- B. Redundancy
- C. Backup servers
- D. BootReplyDelay

ANSWER: A

37. What does IBM Cloud Kubernetes Service provide?

- A. Serverless function runtime
- B. Virtual desktops in the cloud
- C. Container hosting with self-healing and horizontal scaling
- D. Container storage and management

ANSWER: C

38. What is a key benefit of deploying IaaS bare metal servers or virtual servers on IBM Cloud?

- A. Ability to manage user accounts
- B. Reduced performance compared to on-premises servers
- C. Accelerated performance with quick deployment
- D. Limited integration with on-premises systems

ANSWER: C

39. Which of the following is true about vertical scalability?

- A. It requires reboots and possibly adding physical components to servers
- B. It is used to add more virtual servers to a pool
- C. It involves adding more nodes to a cluster
- D. It is less dynamic and usually handled automatically

ANSWER: A

40. When using IBM Cloud Auto Scaling, what happens if the load on the application decreases?

- A. Existing instances are removed to save costs
- B. Manual intervention is required to adjust resources
- C. Resources are locked to prevent any changes
- D. New instances are added to handle reduced load

ANSWER: A

41. Which service allows you to define and control your virtual networks in IBM public cloud?

- A. Virtual servers
- B. Kubernetes Service
- C. Virtual private cloud (VPC)
- D. Object storage

ANSWER: C

42. What are the primary components included in a data center's support infrastructure?

- A. Environmental controls, power supplies, and cabling systems
- B. Marketing tools and customer databases
- C. Customer support and sales tracking
- D. Data analytics and business intelligence tools

ANSWER: A

43. How does horizontal scaling contribute to increased reliability in cloud systems?

- A. By increasing the robustness of components through load distribution
- B. By simplifying maintenance windows
- C. By reducing the number of system components
- D. By automating failure monitoring

ANSWER: A

44. Which IBM Cloud service provides content caching and delivery?

- A. IBM Cloud Certificate Manager
- B. IBM Cloud Internet Services
- C. IBM Cloud Backup
- D. IBM Cloud Direct Link

ANSWER: B

45. What is fault tolerance in the context of cloud computing?

- A. The ability to process data faster
- B. The ability to handle unlimited workloads
- C. The ability to reduce costs automatically
- D. The ability to continue functioning during a partial failure

ANSWER: D

46. Which cloud service model is most suitable for minimizing operational costs while using web-based applications?

- A. IaaS
- B. PaaS
- C. SaaS
- D. NaaS

ANSWER: C

47. Which service is used to physically ship petabytes of data to IBM Cloud?

- A. IBM Cloud Object Storage
- B. IBM Cloud Mass Data Migration
- C. IBM Cloud Block Storage
- D. IBM Cloud File Storage

ANSWER: B

48. What does IBM Hyper Protect Crypto Services designed to do?

- A. Provide a dashboard for security management
- B. Store and process cryptographic keys in tamper-resistant hardware
- C. Manage encryption keys for IBM Cloud apps
- D. Offer a single-tenant, dedicated instance to manage secrets

ANSWER: B

49. What does IBM Hyper Protect DBaaS specifically offer?

- A. Managed in-memory key-value store
- B. Managed PostgreSQL and MongoDB for sensitive data
- C. Managed PCI-compliant JSON document store
- D. Managed SQL database for enterprise applications

ANSWER: B

50. Which of these is NOT a type of cloud storage?

- A. Block storage
- B. Object storage
- C. Process storage
- D. File storage

ANSWER: C

51. Which programming languages are supported by IBM Cloud Foundry's runtimes?

- A. Java, Node.js, PHP, Python, Ruby, Swift, Go
- B. Java, C++, PHP, Ruby
- C. HTML, CSS, JavaScript
- D. C, C#, Swift, Python

ANSWER: A

52. What does the IBM Cloud Pak for Integration provide?

- A. Operations management software with AI insights
- B. Tools to connect all of your apps, data, and events
- C. Management software for telco network operations
- D. DevOps management tool with AI analysis and recommendations

ANSWER: B

53. Which IBM Cloud service provides physical or virtual private connections to IBM Cloud?

- A. IBM Cloud Internet Services
- B. IBM Cloud App ID
- C. IBM Cloud Content Delivery Network
- D. IBM Cloud Direct Link

ANSWER: D

54. Which of the following is a feature of the IBM Watson Discovery service?

- A. Real-time text-to-speech conversion
- B. API for translation with domain-specific models
- C. Virtual agents customizable to any domain
- D. Search and analytics engine that adapts to custom domains

ANSWER: D

55. What is the primary purpose of IBM Cloud Foundry?

- A. To reduce internet latency
- B. To facilitate the build and deployment of cloud-native applications
- C. To enhance hardware performance
- D. To provide high-speed networking

ANSWER: B

56. Which form of scalability involves adding or removing physical servers based on a forecast?

- A. Manual Scaling
- B. Semi-Automated Scaling
- C. Elastic Scaling
- D. Automated Scaling

ANSWER: A

57. What is cloud storage?

- A. Storage devices physically located on-premise
- B. Storage of data on personal computers
- C. None of the above
- D. Storage of data on the internet via a cloud provider

ANSWER: D

58. Which of the following is a measure of the percentage of time a system is available for use?

- A. Availability
- B. Resiliency
- C. Robustness
- D. Scalability

ANSWER: A

59. Which of the following is a benefit of cloud storage?

- A. High initial cost
- B. Limited access
- C. Off-site management
- D. Limited scalability

ANSWER: C

60. What does IBM Cloud Code Engine provide?

- A. Serverless container hosting platform
- B. Virtual servers for classic infrastructure
- C. Kubernetes service
- D. Hyper Protect Virtual Servers

ANSWER: A

61. In IBM Cloud, which service provides automation of application resource management?

- A. IBM Watson AIOps
- B. Turbonomic
- C. IBM Watson Knowledge Studio
- D. IBM Watson Assistant

ANSWER: B

62. What does scalability in cloud computing refer to?

- A. The ability to store unlimited data
- B. The ability to increase or decrease IT resources as needed
- C. The ability to run applications on any device
- D. The ability to access cloud resources offline

ANSWER: B

63. Which cloud model is hosted by a third-party provider and shared among multiple users?

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

ANSWER: D

64. Which IBM Cloud service provides a toolkit to migrate on-premises data to the cloud?

- A. IBM Cloud Schematics
- B. IBM Aspera on Cloud
- C. IBM Lift
- D. IBM Cloud for Skytap Solutions

ANSWER: C

65. What distinguishes a public cloud from a private cloud in terms of ownership and access?

- A. Public clouds are shared by multiple tenants, while private clouds are dedicated to a single tenant.
- B. Private clouds allow free access, while public clouds charge fees.
- C. Public clouds are owned by users and private clouds by vendors.
- D. Public clouds always operate on-premises, while private clouds do not.

ANSWER: A

66. What does the term "pay-as-you-go" often refer to in public cloud services?

- A. Free services offered by providers
- B. Payments made only at the end of the year
- C. Fixed subscription charges
- D. Paying for services based on usage

ANSWER: D

67. What does the term "dedicated hardware" often refer to in private cloud services?

- A. Virtualized hardware for multiple organizations
- B. Hardware owned by the government
- C. Hardware solely allocated to one organization
- D. Shared physical resources among users

ANSWER: C

68. Which aspect of cloud computing contributes to its reliability?

- A. Manual backup and recovery processes
- B. Expensive and slow data recovery
- C. Fast and less expensive backup and recovery
- D. Limited data backup options

ANSWER: C

69. What security measures do cloud vendors typically offer?
- A. Minimal security policies
 - B. A broad set of policies, technologies, and controls
 - C. User-dependent security protocols
 - D. Only physical security measures

ANSWER: B

70. What defines cloud computing?
- A. Technology using remote servers to store and manage data
 - B. A method of storing data on physical hard drives
 - C. Securing data within a local network
 - D. Transferring data through physical mediums

ANSWER: A

71. Which of these is a key characteristic of cloud computing?
- A. High upfront infrastructure costs
 - B. Limited scalability
 - C. Restricted accessibility
 - D. On-demand self-service

ANSWER:

72. Which service model allows users to develop, run, and manage applications without dealing with the underlying infrastructure?
- A. Software as a Service (SaaS)
 - B. Function as a Service (FaaS)
 - C. Infrastructure as a Service (IaaS)
 - D. Platform as a Service (PaaS)

ANSWER: D

73. What is required for an IT system to be considered a hybrid cloud?
- A. Only a single public cloud must be present.
 - B. It must be managed as a single environment using an integrated platform.
 - C. It must include both a bare-metal and a virtual environment.
 - D. It must be exclusively operated off-premises.

ANSWER: B

74. What characterizes the delivery of SaaS to users?
- A. Installation through physical media
 - B. On-demand access via the internet
 - C. Exclusive access within a local network
 - D. Usage limited to specific devices

ANSWER: B

75. Which statement best describes the flexibility of hybrid cloud solutions?
- A. Hybrid clouds can only connect public clouds.
 - B. Hybrid clouds provide flexibility and more deployment options by combining different environments.
 - C. Hybrid clouds are rigid and do not allow data sharing.
 - D. Hybrid clouds cannot include on-premises infrastructure.

ANSWER: B

76. How does IaaS differ from traditional web-hosting services?
- A. IaaS allows for complete control and customization of virtual environments.
 - B. IaaS requires users to manage both hardware and software.
 - C. IaaS offers only a fixed set of resources.
 - D. IaaS provides only physical servers.

ANSWER: A

77. Which type of cloud storage organizes data into large volumes called “blocks”?

- A. Volume storage
- B. Object storage
- C. Block storage
- D. File storage

ANSWER: C

78. Which of the following is an example of a serverless database service?

- A. Amazon DynamoDB
- B. Google Cloud SQL
- C. Azure SQL Database
- D. Amazon RDS(Relational Database Service)

ANSWER: A

79. Who owns and manages the infrastructure in a hybrid cloud environment?

- A. Managed by a consortium of organizations
- B. Owned and managed by a single organization
- C. Jointly owned by the users and cloud service provider
- D. Managed by the government

ANSWER: C

80. In what way does cloud computing enhance productivity for IT teams?

- A. By allowing focus on achieving business goals
- B. By necessitating regular hardware upgrades
- C. By increasing the need for software maintenance
- D. By requiring more manual updates and patching

ANSWER: A

81. Which of the following is an example of a hybrid cloud deployment model?

- A. VMware Cloud
- B. Google Cloud Platform
- C. AWS (Amazon Web Services)
- D. Microsoft Azure

ANSWER: A

82. Which cloud storage model allows for a combination of on-premise storage and cloud storage, often used for critical and non-critical data?

- A. Public cloud
- B. Private cloud
- C. Hybrid cloud
- D. Federated cloud

ANSWER: C

83. Which method is commonly used to minimize latency issues in cloud storage?

- A. Increase connection bandwidth
- B. Reduce storage capacity
- C. Store data locally only
- D. Use older hardware

ANSWER: A

84. Who owns and manages a private cloud infrastructure?

- A. Owned and managed by the cloud service provider
- B. Jointly owned by the users
- C. Owned by a single organization
- D. Owned by the government

ANSWER: C

85. What is a key advantage of using PaaS for software development teams?

- A. Direct management of server security
- B. Elimination of the need to manage the underlying infrastructure
- C. Access to custom-built hardware solutions
- D. Full control over the physical hardware

ANSWER: B

Medium

86. Which IBM Cloud service provides tools to integrate your apps through APIs and messaging?

- A. IBM Event Streams
- B. IBM Cloud Pak for Integration
- C. IBM API Connect
- D. IBM Lift

ANSWER: B

87. What distinguishes a multi-zone region from a single-zone region?

- A. Multi-zone regions have multiple availability zones; single-zone regions have only one.
- B. Multi-zone regions are available in fewer locations than single-zone regions.
- C. Single-zone regions provide more storage options than multi-zone regions.
- D. Multi-zone regions have one availability zone; single-zone regions have multiple availability zones.

ANSWER: A

88. Which type of load balancer operates at Layer 4(Transport Layer) of the OSI model and can balance traffic based on network and transport layer information?

- A. Global Load Balancer(GLB)
- B. Network Load Balancer(NLB)
- C. Classic Load Balancer(CLB)
- D. Application Load Balancer(ALB)

ANSWER: B

89. Which service in IBM Cloud enables automatic scaling of compute capacity for applications?

- A. IBM Log Analysis
- B. Auto-Scaling for IBM Cloud
- C. IBM Cloud Monitoring
- D. IBM Watson

ANSWER: B

90. Which IBM Cloud service provides raw IaaS power for processor-intensive workloads?

- A. Virtual private cloud (VPC)
- B. Bare metal servers
- C. Kubernetes Service
- D. Virtual servers

ANSWER: B

91. What does chaos testing aim to achieve in a cloud environment?

- A. Monitor system performance in real-time
- B. Reduce the number of system components
- C. Deliberately test components to find breakpoints
- D. Automate routine tasks

ANSWER: C

92. What type of cloud storage is ideal for storing unstructured data with customizable metadata?

- A. Block storage
- B. File storage
- C. Object storage
- D. Table storage

ANSWER: C

93. What is a potential disadvantage of using cloud storage?

- A. Easy implementation
- B. Lower initial cost
- C. Security concerns
- D. Unlimited scalability

ANSWER: C

94. Which service offers managed backup and recovery across multiple data centers?

- A. IBM Cloud Backup
- B. IBM Cloud Block Storage
- C. IBM Cloud Mass Data Migration
- D. IBM Cloud File Storage

ANSWER: A

95. What does IBM Cloud Pak for Data primarily focus on?

- A. Tools to connect apps, data, and events
- B. Operations management with AI insights
- C. Data analysis, organization, and management
- D. Management software for telco network operations

ANSWER: C

96. What does IBM Cloud Pak for Watson AIOps specifically offer?

- A. Automation of business workflows
- B. Managed SQL and NoSQL databases
- C. DevOps management with AI analysis and recommendations
- D. Security management and compliance

ANSWER: C

97. Which type of cloud storage is IBM Object Storage primarily used for?

- A. Structured data
- B. Unstructured data
- C. Backup storage
- D. Temporary data

ANSWER: B

98. At which level can fault tolerance be implemented by having backup network links and active elements?

- A. Operating System Level
- B. Network Level
- C. DHCP Level
- D. Physical Level

ANSWER: B

99. Which service is provided by IBM Cloud in the "Quantum" category?

- A. IBM Quantum Lab
- B. IBM Watson Machine Learning
- C. IBM Streaming Analytics
- D. IBM Blockchain Platform

ANSWER: A

100. What feature of IBM Cloud Foundry automatically places applications across multiple data centers for reliability?

- A. Auto-Scaling
- B. Automatic health management
- C. Automatic placement
- D. Access control

ANSWER: C

101. In IBM Cloud Auto Scaling, which of the following can be a trigger for scaling actions?

- A. Number of employees
- B. Geographic location
- C. Company revenue
- D. CPU percentage

ANSWER: D

102. Which of the following is NOT a characteristic of a private cloud?

- A. Higher level of security and control
- B. Limited accessibility over the internet
- C. Shared infrastructure
- D. Dedicated environment for a single organization

ANSWER: C

103. What is the primary use of IBM Cloud Pak for Data?

- A. Data analysis, organization, and management
- B. Management software for telco network operations
- C. Tools to connect apps, data, and events
- D. Operations management with AI insights

ANSWER: A

104. Which IBM Cloud service is designed for serverless function execution based on Apache OpenWhisk?

- A. IBM Cloud Functions
- B. IBM Cloud Virtual Servers for VPC
- C. IBM Cloud Code Engine
- D. IBM Hyper Protect Virtual Servers

ANSWER: A

105. What type of cloud storage organizes data into large volumes called “blocks”?

- A. Object storage
- B. File storage
- C. Block storage
- D. Volume storage

ANSWER: C

106. Which AWS service provides a scalable, fully managed NoSQL database?

- A. Amazon DynamoDB
- B. Amazon S3
- C. AWS Lambda
- D. Amazon Redshift

ANSWER: A

107. Which of the following is a key benefit of using Amazon S3 for storing data?

- A. Low-latency data retrieval
- B. Real-time data analytics
- C. Automatic data encryption
- D. Unlimited storage capacity

ANSWER: C

108. Which of the following is a characteristic of elastic scaling?

- A. Automatically adjusts capacity based on demand
- B. Requires manual configuration for each resource addition
- C. Limited to physical servers only
- D. Does not provide cost savings when removing resources

ANSWER: A

109. In which cloud storage model do companies maintain data on their own infrastructure but have the ability to access resources via the cloud?

- A. Public cloud
- B. Private cloud
- C. Hybrid cloud
- D. Distributed cloud

ANSWER: C

110. What is a key advantage of using cloud computing for businesses?

- A. Unlimited data storage without cost
- B. Instant access to resources without manual setup
- C. Permanent ownership of cloud infrastructure
- D. Complete control over physical hardware

ANSWER: B

111. What does the acronym "IAM" stand for in AWS?

- A. Internet Access Management
- B. Identity and Access Management
- C. Infrastructure Authentication Model
- D. Intelligent Authorization Mechanism

ANSWER: B

112. Which AWS service can be used to host a static website?

- A. AWS Lambda
- B. Amazon EC2
- C. Amazon S3
- D. Amazon RDS

ANSWER: C

113. How does a hybrid cloud environment operate?

- A. Exclusively on on-premise infrastructure
- B. As a combination of public and private clouds
- C. As a single public cloud environment
- D. Only within a private datacenter

ANSWER: B

114. What AWS service allows you to create and manage virtual networks in the cloud?

- A. AWS Direct Connect
- B. Amazon Route 53
- C. Amazon VPC
- D. Amazon S3

ANSWER: C

115. What type of cloud environment does the term "dedicated cloud" refer to?

- A. A public cloud within a private cloud
- B. A private cloud managed by multiple users
- C. A cloud within another cloud
- D. A free-to-use cloud service

ANSWER: C

116. Which AWS service can be used to automatically scale EC2 instances based on demand?

- A. Amazon Route 53
- B. AWS Lambda
- C. Amazon EC2 Auto Scaling
- D. AWS Elastic Beanstalk

ANSWER: C

117. Which of the following is an example of SaaS?

- A. Docker
- B. Microsoft Azure
- C. Google Docs
- D. Amazon EC2

ANSWER: C

118. What does the "R" stand for in the AWS service "Amazon RDS"?

- A. Real-time
- B. Reliable
- C. Redundant
- D. Remote

ANSWER: C

119. How are cloud computing services typically charged?

- A. Based on a flat monthly fee
- B. Based on yearly contracts
- C. Based on the number of users
- D. Based on usage

ANSWER: D

120. Which service model offers the most flexibility in terms of infrastructure customization?

- A. Software as a Service (SaaS)
- B. Network as a Service (NaaS)
- C. Platform as a Service (PaaS)
- D. Infrastructure as a Service (IaaS)

ANSWER: D

121. What does the cloud environment provide to users for managing resources?

- A. A physical interface
- B. A dedicated local server
- C. An easily accessible online portal
- D. Manual configuration tools

ANSWER: C

122. Which AWS service provides a fully managed, highly available relational database service?

- A. Amazon Redshift
- B. Amazon DynamoDB
- C. AWS RDS
- D. Amazon ElastiCache

ANSWER: C

123. What AWS service can be used to automatically backup and restore Amazon EC2 instances?

- A. Amazon Glacier
- B. AWS Backup
- C. Amazon S3
- D. Amazon Elastic Block Store (EBS)

ANSWER: B

124. What AWS service provides a scalable, fully managed NoSQL database?

- A. Amazon S3
- B. Amazon Redshift
- C. AWS Lambda
- D. Amazon DynamoDB

ANSWER: D

125. Which AWS service is used to launch and manage virtual servers in the cloud?

- A. Amazon RDS
- B. AWS Lambda
- C. Amazon S3
- D. Amazon EC2

ANSWER: D

126. Which IBM Cloud service provides a serverless container hosting platform?

- A. IBM Cloud Virtual Servers for Classic Infrastructure
- B. IBM Hyper Protect Virtual Servers
- C. IBM Cloud Code Engine
- D. IBM Cloud Kubernetes Service

ANSWER: C

127. Which IBM Cloud feature enables building your own AI models?

- A. IBM Watson Language Translator
- B. IBM Watson Assistant
- C. IBM Watson Text to Speech
- D. IBM Watson Studio

ANSWER: D

128. Which of the following is a method to minimize latency issues in cloud storage?

- A. Reduce storage capacity
- B. Store data locally only
- C. Increase connection bandwidth
- D. Use older hardware

ANSWER: C

129. What characteristic of a managed private cloud is correct?

- A. It is managed entirely by the internal IT team.
- B. It requires physical servers to be owned by the organization.
- C. It is deployed and managed by a third-party vendor.
- D. It is free to use for any organization.

ANSWER: C

130. What does Amazon S3 offer as a key benefit for storing data?

- A. Low-latency data retrieval
- B. Automatic data encryption
- C. Unlimited storage capacity
- D. Real-time data analytics

ANSWER: C

131. In India where IBM Cloud Data Center is?

- A. Chennai
- B. Bangalore
- C. Mumbai
- D. Hyderabad

ANSWER: A

132. What is the primary function of AWS Lambda?

- A. To host virtual servers
- B. To provide a relational database
- C. To execute code in response to events
- D. To store data in the cloud

ANSWER: C

133. What is the aim of the "Automation" principle in cloud best practices?

- A. Increasing manual intervention in cloud operations
- B. Streamlining and automating routine tasks
- C. Reducing system availability
- D. Relying solely on human decision-making

ANSWER: B

134. What does the practice of "Tagging Resources" in the cloud involve?
- A. Eliminating resources to reduce clutter
 - B. Labeling resources for easy identification and management
 - C. Hiding resources from administrators
 - D. Removing access to resources for security reasons

ANSWER: B

135. In the Shared Responsibility Model, what does the cloud service provider (CSP) typically manage?
- A. Application development and deployment
 - B. Physical infrastructure and data centers
 - C. Security of customer data and access management
 - D. Customer configurations and data encryption

ANSWER: B

136. What aspect of data protection falls under the responsibility of the cloud user in the Shared Responsibility Model?
- A. Network infrastructure maintenance
 - B. Encryption of data in transit and at rest
 - C. Physical security of data centers
 - D. Server hardware upgrades

ANSWER: B

137. What security measure involves regularly updating and patching software and systems to mitigate vulnerabilities?
- A. Regular Backups
 - B. Intrusion Detection
 - C. Patch Management
 - D. Penetration Testing

ANSWER: C

138. What is the purpose of implementing Multi-Factor Authentication (MFA) in cloud security?
- A. Adding an extra layer of security by requiring multiple forms of verification
 - B. Providing single-step authentication for user access
 - C. Relying solely on passwords for user authentication
 - D. Allowing unrestricted access to resources

ANSWER: A

139. Which practice involves spreading workloads and data across multiple servers or regions?
- A. Centralization
 - B. Segmentation
 - C. Consolidation
 - D. Decentralization

ANSWER: B

140. How does implementing Network Segmentation contribute to cloud security?
- A. By isolating sensitive resources and limiting access to them
 - B. By consolidating all network traffic for easier monitoring
 - C. By exposing all resources openly for user access
 - D. By allowing unrestricted inter-network communication

ANSWER: A

141. Which security measure involves defining and implementing clear user access controls and permissions?
- A. Network Address Translation (NAT)
 - B. Role-Based Access Control (RBAC)
 - C. Single Sign-On (SSO)
 - D. Security Group Management

ANSWER: B

142. What aspect of IBM Cloud emphasizes flexibility and ease of scaling resources?

- A. AI-powered services
- B. Integrated security solutions
- C. Hybrid cloud capabilities
- D. Elasticity in resource allocation

ANSWER: D

143. Which one of the following cloud concepts is related to sharing and pooling the resources?

- A. Virtualization
- B. Polymorphism
- C. Abstraction
- D. None of the mentioned

ANSWER: A

144. What is Software as a Service(SaaS)?

- A. A cloud computing service that provides data analysis and visualization tools
- B. A cloud computing service that provides virtualized computing resources, such as servers and storage
- C. A cloud computing service that provides a development platform for building software applications
- D. A cloud computing service that provides access to a software application over the internet

ANSWER: D

145. What type of computing technology refers to services and applications that typically run on a distributed network through virtualized resources?

- A. Soft Computing
- B. Cloud Computing
- C. Distributed Computing
- D. Parallel Computing

ANSWER: B

146. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as _____ resources to users.

- A. Cloud
- B. Virtual
- C. Real
- D. None of the mentioned

ANSWER: B

147. Which one of the following is a Cloud Platform by Amazon?

- A. Azure
- B. AWS
- C. Cloudera
- D. All of the mentioned

ANSWER: B

148. Which strategy ensures data security and confidentiality in the cloud?

- A. Implementing strict access controls and encryption
- B. Storing data without encryption
- C. Allowing unrestricted access to data
- D. Using weak authentication mechanisms

ANSWER: A

149. How many phases are present in Cloud Computing Planning?

- A. 2
- B. 3
- C. 4
- D. 5

ANSWER: B

150. Which one of the following refers to the user's part of the Cloud Computing system?

- A. Management
- B. Back End
- C. Front End
- D. Infrastructure

ANSWER: C

151. What does "Regular Security Audits" in cloud security refer to?
- A. Daily firewall configuration changes
 - B. Periodic assessments and checks to identify vulnerabilities and compliance issues
 - C. Implementing real-time intrusion detection systems
 - D. Infrequent and irregular security checks

ANSWER: B

152. Which of the following is a responsibility of the cloud user in the Shared Responsibility Model?
- A. Protecting physical servers and networking hardware
 - B. Managing and securing their applications and data
 - C. Monitoring overall cloud performance
 - D. Handling CSP's data backups and disaster recovery

ANSWER: B

153. What security measure involves defining and implementing clear user access controls and permissions?
- A. Role-Based Access Control (RBAC)
 - B. Security Group Management
 - C. Network Address Translation (NAT)
 - D. Single Sign-On (SSO)

ANSWER: A

154. What is one primary concern regarding cloud computing security?
- A. Inadequate scalability options
 - B. Data breaches and unauthorized access
 - C. Limited storage capacity
 - D. Lack of internet connectivity

ANSWER: B

155. Which security measure helps protect data transmitted between a user's device and a cloud service?
- A. Data mirroring
 - B. Data deduplication
 - C. Data encryption
 - D. Data compression

ANSWER: C

156. What security mechanism helps prevent unauthorized access to cloud resources by verifying user identity?
- A. Open access policies
 - B. Two-factor authentication
 - C. Shared credentials
 - D. Public key encryption

ANSWER: B

157. Which aspect of cloud computing security refers to the process of ensuring authorized access to resources?
- A. Confidentiality
 - B. Integrity
 - C. Authentication
 - D. Availability

ANSWER: C

158. What security measure helps maintain data consistency and accuracy within cloud storage?
- A. Data integrity checks
 - B. Data compression techniques
 - C. Regular data backups
 - D. Redundant data storage

ANSWER: A

159. What is the primary purpose of Docker?

- A. To virtualize hardware components
- B. To containerize and deploy applications
- C. To provide operating system-level virtualization
- D. To manage network configurations

ANSWER: B

160. How do Docker containers differ from virtual machines (VMs)?

- A. Containers have a larger footprint than VMs.
- B. Containers use the host OS kernel, while VMs have their own kernel.
- C. VMs provide better performance than containers.
- D. Containers are not isolated like VMs.

ANSWER: B

161. What is the main benefit of using Docker containers in software development?

- A. Increased hardware utilization
- B. Enhanced CPU performance
- C. Isolation of applications and dependencies
- D. Streamlined network configuration

ANSWER: C

162. How do cloud service providers ensure data confidentiality and integrity?

- A. Through shared account credentials
- B. By allowing public access to all data
- C. By implementing strict access controls and encryption
- D. Through open access policies

ANSWER: C

163. Which Kubernetes component is responsible for scheduling containers on nodes?

- A. kube-proxy
- B. kube-apiserver
- C. kube-controller-manager
- D. kube-scheduler

ANSWER: D

164. What security aspect ensures that data is available and accessible to authorized users when needed?

- A. Data privacy
- B. Data redundancy
- C. Data availability
- D. Data encryption

ANSWER: C

165. Which IBM Cloud Block Storage type offers the highest IOPS(Input/ Output Operations Per Second)?

- A. General-purpose block storage
- B. Performance block storage
- C. Endurance block storage
- D. Standard block storage

ANSWER: B

166. What security measure helps in maintaining data consistency and accuracy within cloud storage?

- A. Data integrity checks
- B. Redundant data storage
- C. Regular data backups
- D. Data compression techniques

ANSWER: A

167. Which command is used to list all running Docker containers?

- A. docker containers
- B. docker status
- C. docker ps
- D. docker list

ANSWER: C

168. What security practice helps mitigate risks associated with unauthorized data modification or deletion?

- A. Access control lists
- B. Data encryption
- C. Regular data backups
- D. Data mirroring

ANSWER: C

169. Which Kubernetes object ensures that a specified number of pod replicas are running at any given time?

- A. Deployment
- B. Pod
- C. ReplicaSet
- D. Service

ANSWER: A

170. How do cloud providers enhance security against distributed denial-of-service (DDoS) attacks?

- A. By sharing system passwords
- B. By exposing all network ports
- C. By implementing firewalls and intrusion detection systems
- D. By allowing unrestricted data transfer

ANSWER: C

171. What is the primary function of Kubernetes?

- A. To orchestrate and manage containerized applications
- B. To automate software development
- C. To provide cloud-based storage solutions
- D. To replace Docker containers

ANSWER: A

172. Which component in Docker is responsible for managing containers?

- A. Docker Compose
- B. Docker Registry
- C. Docker Engine
- D. Docker Swarm

ANSWER: C

173. What security measure helps protect data transmitted between a user's device and a cloud service?

- A. Data mirroring
- B. Data deduplication
- C. Data encryption
- D. Data compression

ANSWER: C

174. Which security measure involves ensuring user identities to prevent unauthorized access?

- A. Open access policies
- B. Two-factor authentication
- C. Shared credentials
- D. Public key encryption

ANSWER: B

175. What is the primary function of Kubernetes?

- A. To provide cloud-based storage solutions
- B. To orchestrate and manage containerized applications
- C. To automate software development
- D. To replace Docker containers

ANSWER: B

176. What is a load balancer?

- A. A device that encrypts data in transit between two devices to ensure data security
- B. A device that distributes network traffic across multiple servers to ensure that no single server becomes overloaded
- C. A device that monitors network traffic to detect and prevent security threats
- D. A device that provides network connectivity between multiple devices in a local area network (LAN)

ANSWER: B

177. What benefit does cloud computing offer in terms of innovation and experimentation?

- A. Limits access to cutting-edge technologies
- B. Promotes experimentation and innovation through easy access to new technologies
- C. Restricts access to development tools
- D. Decreases the flexibility of deployment

ANSWER: B

178. What is a Virtual private cloud?

- A. A type of cloud computing that allows users to create a private, isolated section of the public cloud
- B. A type of cloud computing that focuses on data analysis and visualization
- C. A type of cloud computing that provides virtualized computing resources, such as servers and storage
- D. A type of cloud computing that provides a development platform for building software applications

ANSWER: A

179. What is Software as a Service (SaaS)?

- A. A cloud computing service that provides virtualized computing resources, such as servers and storage
- B. A cloud computing service that provides data analysis and visualization tools
- C. A cloud computing service that provides access to a software application over the internet
- D. A cloud computing service that provides a development platform for building software applications

ANSWER: C

180. What does IBM Cloud Block Storage provide in terms of data management?

- A. Ability to attach/detach storage dynamically
- B. Automated data categorization
- C. Automated file indexing
- D. Automated data compression

ANSWER: A

181. Which IBM Cloud database service is a fully managed NoSQL document-based database?

- A. Db2
- B. Db2 Hosted
- C. Db2 Warehouse
- D. IBM Cloudant

ANSWER: D

182. What must you configure to allow your VPC to communicate to the internet?

- A. Subnet
- B. Region
- C. Availability Zone
- D. Internet Gateway

ANSWER: D

183. How many types of service model are mainly present in Cloud?

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

ANSWER: B

184. What is the difference between public and private cloud computing?

- A. Private cloud computing is more scalable than public cloud computing
- B. Public cloud computing is more secure than private cloud computing
- C. Public cloud computing is only accessible to a single organization, while private cloud computing is available to anyone
- D. Public cloud computing is more expensive than private cloud computing

ANSWER: C

185. Which IBM Cloud setup provides replication and resilience across multiple regions?

- A. Single Zone
- B. Data Center Cluster
- C. Availability Zone
- D. Multi-Zone

ANSWER: D

Hard

186. What kind of virtual server type is in a single-tenant environment?

- A. Public
- B. Reserved
- C. Dedicated
- D. Transient

ANSWER: C

187. What is autoscaling?

- A. A feature of cloud computing that allows users to easily manage and monitor their cloud resources
- B. A feature of cloud computing that allows applications to automatically scale up or down based on demand
- C. A feature of cloud computing that allows users to automatically provision virtualized computing resources, such as servers and storage
- D. A feature of cloud computing that allows users to store and analyze large amounts of data

ANSWER: B

188. What security feature restricts access to data based on user identity and credentials?

- A. Authentication
- B. Encryption
- C. Authorization
- D. Firewall

ANSWER: C

189. _____ is a complete operating environment with applications, management, and user interface.

- A. PaaS
- B. IaaS
- C. All of the mentioned
- D. SaaS

ANSWER: D

190. What is a multi-zone region?

- A. A region achieves 99.9 availability for your apps and services.
- B. A region that is comprised of 2 or more zones that are independent from each other to ensure that single failure events affect only a single zone.
- C. A region where you can host the power cooling, compute, network, and storage resources for services and apps.
- D. A region that is comprised of 3 or more zones that are independent from each other to ensure that single failure events affect only a single zone.

ANSWER: D

191. _____ provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets.

- A. IaaS
- B. PaaS
- C. All of the mentioned
- D. SaaS

ANSWER: A

192. Which command is used to start a Docker container?

- A. docker run
- B. docker up
- C. docker begin
- D. docker start

ANSWER: A

193. _____ is a process that enables an operating system to respond to a failure in hardware or software.

- A. Fault Tolerance
- B. Security
- C. Vertical Scalability
- D. Horizontal Scalability

ANSWER: A

194. What is the primary purpose of Docker?

- A. To manage network configurations
- B. To containerize and deploy applications
- C. To virtualize hardware components
- D. To provide an operating system-level virtualization

ANSWER: B

195. What does a VPC allow users to control within their cloud environment?

- A. Network configurations and IP address ranges
- B. Public internet traffic routing
- C. Physical server access
- D. Hypervisor-level optimizations

ANSWER: A

196. How does a VPC aid in resource optimization and cost management?

- A. By providing free access to network monitoring tools
- B. By limiting data transfer speeds for cost efficiency
- C. By allowing users to allocate resources as needed and avoid over-provisioning
- D. By consolidating virtual machines onto a single physical server

ANSWER: C

197. What is a primary advantage of using cloud databases over traditional on-premises databases?

- A. Higher initial setup costs
- B. Reduced maintenance and management overhead
- C. Limited scalability options
- D. Lower data security measures

ANSWER: B

198. Which feature makes cloud databases more scalable than traditional databases?

- A. On-demand resource provisioning
- B. Fixed network bandwidth
- C. Hardware-based limitations
- D. Limited storage capacity

ANSWER: A

199. How does a VPC differ from a traditional public cloud network?

- A. VPCs provide limited scalability options.
- B. VPCs offer greater control and isolation of resources.
- C. VPCs have less secure data encryption.
- D. VPCs lack multi-region availability.

ANSWER: B

200. How do cloud databases typically handle backups and disaster recovery compared to on-premises solutions?

- A. Cloud databases lack disaster recovery options.
- B. Cloud databases require manual backups.
- C. Cloud databases offer automated backups and robust disaster recovery solutions.
- D. Cloud databases have slower recovery times.

ANSWER: C

201. What is the significance of defining subnets within a VPC?

- A. It enables network traffic mirroring.
- B. It segments and organizes IP address ranges for resource allocation.
- C. It facilitates dynamic load balancing of network traffic.
- D. It allows for direct connections to external data centers.

ANSWER: B

202. Which term describes the capability of a VPC to interconnect multiple VPCs across different regions or environments?

- A. VPC Routing
- B. VPC Federation
- C. VPC Integration
- D. VPC Peering

ANSWER: D

203. In the context of IBM Cloud, how does a VPC contribute to enhanced security?

- A. By encrypting all incoming and outgoing traffic
- B. By implementing strict access control policies and isolation of resources
- C. By providing hardware-based security modules
- D. By routing traffic through external firewalls

ANSWER: B

204. What aspect of cloud databases contributes to their improved accessibility and collaboration?

- A. Cloud databases enable easier remote access and concurrent usage.
- B. Limited user access control
- C. Slower data transfer rates
- D. Geographical restrictions

ANSWER: A

205. What benefit do cloud databases offer in terms of global accessibility and reach?

- A. Ability to access and update data from anywhere in the world
- B. Limited geographic availability
- C. Higher data latency
- D. Slower data access times

ANSWER: A

206. Which factor contributes to the cost-effectiveness of cloud databases?

- A. High initial hardware investments
- B. Pay-as-you-go pricing models and reduced infrastructure maintenance costs
- C. Fixed and upfront licensing fees
- D. Limited scalability options

ANSWER: B

207. What distinguishes cloud databases in terms of resource allocation compared to traditional databases?

- A. Dynamic resource provisioning based on demand
- B. Fixed resource allocation
- C. Limited resource scalability
- D. No resource isolation

ANSWER: A

208. How does a VPC enable seamless integration between on-premises infrastructure and the cloud?

- A. Virtualized networking protocols
- B. Encrypted data tunnels
- C. VPN (Virtual Private Network) connections
- D. Virtualized load balancers

ANSWER: C

209. What aspect of a VPC enables seamless integration between on-premises infrastructure and the cloud?

- A. VPN (Virtual Private Network) connections
- B. Virtualized load balancers
- C. Encrypted data tunnels
- D. Virtualized networking protocols

ANSWER: A

210. How do cloud databases support businesses in handling unpredictable workloads?

- A. By enforcing strict workload limitations
- B. By dynamically adjusting resources to meet varying demands
- C. By offering fixed resource capacities
- D. By restricting concurrent user access

ANSWER: B

211. What does a VPC allow users to control within their cloud environment?

- A. Network configurations and IP address ranges
- B. Public internet traffic routing
- C. Hypervisor-level optimizations
- D. Physical server access

ANSWER: A

212. Which aspect of a VPC enables seamless integration between on-premises infrastructure and the cloud?

- A. Virtualized load balancers
- B. Encrypted data tunnels
- C. VPN (Virtual Private Network) connections
- D. Virtualized networking protocols

ANSWER: C

213. What is a primary advantage of using cloud databases over traditional on-premises databases?

- A. Higher initial setup costs
- B. Reduced maintenance and management overhead
- C. Limited scalability options
- D. Lower data security measures

ANSWER: B

214. What distinguishes cloud databases in terms of resource allocation compared to traditional databases?

- A. Fixed resource allocation
- B. Limited resource scalability
- C. Dynamic resource provisioning based on demand
- D. No resource isolation

ANSWER: C

215. What advantage does cloud computing offer in terms of data analytics and processing?

- A. Decreases data storage capabilities
- B. Reduces processing speed and efficiency
- C. Provides scalable computing power for data analysis
- D. Limits access to analytical tools

ANSWER: C

216. Which of the following is not a characteristic of cloud computing?

- A. Broad network access
- B. Limited scalability
- C. On-demand self-service
- D. Resource pooling

ANSWER: B

217. Which cloud computing component provides a virtualized environment for users to develop, test, and run applications?

- A. Cloud platform
- B. Cloud database
- C. Cloud server
- D. Virtual private network

ANSWER: A

218. What advantage does cloud computing offer in terms of testing and development?

- A. Limits the scope of development environments
- B. Requires physical testing environments
- C. Provides on-demand and scalable testing environments
- D. None

ANSWER: C

219. Which IBM Cloud service provides a suite of security tools and services for protecting cloud-based applications?

- A. IBM Security Guardium
- B. IBM Security Identity Governance
- C. IBM Security Advisor
- D. IBM Cloud Pak for Security

ANSWER: D

220. Which feature allows a computing system to dynamically adjust resources to meet changing demands?

- A. Reliability
- B. Scalability
- C. Fault tolerance
- D. Elasticity

ANSWER: D

221. Which of the following is not a major cloud computing provider?

- A. Google Drive
- B. Microsoft Azure
- C. Amazon Web Services (AWS)
- D. IBM Cloud

ANSWER: A

222. What IBM Cloud feature offers a service for managing encryption keys used to encrypt data?

- A. IBM Cloud Security Advisor
- B. IBM Key Protect
- C. IBM Cloud Hyper Protect Crypto Services
- D. IBM Cloud Secure Gateway

ANSWER: B

223. Which IBM Cloud service provides a virtual server environment that scales based on demand?

- A. IBM Cloud Functions
- B. IBM Cloud Foundry
- C. IBM Cloud Kubernetes Service
- D. IBM Cloud Virtual Servers

ANSWER: D

224. Which IBM Cloud Block Storage type is best suited for workloads requiring consistent, predictable performance?

- A. Endurance block storage
- B. Standard block storage
- C. General-purpose block storage
- D. Performance block storage

ANSWER: D

225. Which aspect of IBM Cloud Block Storage contributes to its high availability?

- A. Automated encryption
- B. Multi-zone replication
- C. Data deduplication
- D. On-demand provisioning

ANSWER: B

226. What feature of IBM Cloud Block Storage allows users to take point-in-time snapshots of their data?

- A. Snapshot functionality
- B. Automated backups
- C. Continuous data replication
- D. Automated tiering

ANSWER: A

227. What does VPC stand for in the context of IBM Cloud infrastructure?

- A. Virtual Private Cloud
- B. Virtualized Product Configuration
- C. Virtualized Processing Center
- D. Virtualized Personal Connection

ANSWER: A

228. What type of storage in IBM Cloud can be used to create an 'NFS Share'?

- A. IBM Cloud File Storage
- B. IBM Cloud Block Storage
- C. IBM Cloud Object Storage
- D. IBM Cloud Direct Attached Storage

ANSWER: A

229. What is the primary purpose of a Virtual Private Cloud (VPC) in cloud computing?

- A. To create isolated network environments within a public cloud
- B. To allocate physical servers for exclusive user access
- C. To establish direct connections between different cloud providers
- D. To facilitate hybrid cloud deployments

ANSWER: A

230. Which of the following best describes the main benefit of using a VPC?

- A. Improved scalability and resource isolation
- B. Reduced latency in data transmission
- C. Enhanced data encryption at rest
- D. Increased network bandwidth allocation

ANSWER: A

231. Which IBM Cloud service allows users to create conversational interfaces for applications?

- A. IBM Cloud Pak for Integration
- B. IBM Watson Assistant
- C. IBM Watson Studio
- D. IBM Cloud Object Storage

ANSWER: B

232. What feature of IBM Cloud enables users to securely connect and manage resources across hybrid cloud environments?

- A. IBM Cloud Functions
- B. IBM Cloud Foundry
- C. IBM Cloud Kubernetes Service
- D. IBM Cloud Satellite

ANSWER: D

233. Which IBM Cloud setup ensures redundancy and resilience while spreading resources across different geographic regions?

- A. Availability Zone
- B. Data Center Cluster
- C. Single Zone
- D. Multi-Zone

ANSWER: D

234. Which of the following is NOT a characteristic of a private cloud?

- A. Dedicated environment for a single organization
- B. Shared infrastructure
- C. Higher level of security and control
- D. Limited accessibility over the internet

ANSWER: B

235. What is IBM Cloud Block Storage primarily used for?

- A. Storing structured data in databases
- B. Long-term archival of files
- C. Serving as a backup repository
- D. Storing unstructured data

ANSWER: A

236. What differentiates IBM Cloud Block Storage from Object Storage in terms of data access?

- A. Object Storage offers file-based access
- B. Block Storage offers RESTful API access
- C. Object Storage offers block-level access
- D. Block Storage offers object-based access

ANSWER: D

237. What is the term for the practice of using multiple cloud computing services in a single heterogeneous architecture?

- A. Cloud integration
- B. Cloud conglomeration
- C. Cloud federation
- D. Cloud amalgamation

ANSWER: C

238. What advantage does cloud computing offer in terms of accessibility?

- A. Dependence on specific hardware for access
- B. Limited geographic availability
- C. Broad network access from various devices
- D. Restricted access to data and applications

ANSWER: C

239. How does cloud computing impact environmental sustainability?

- A. Reduces energy consumption and promotes efficiency
- B. Increases carbon footprint due to increased data centers
- C. Promotes deforestation for server installations
- D. Limits recycling possibilities of hardware

ANSWER: A

240. What IBM Cloud feature facilitates the integration, deployment, and management of AI models in the cloud?

- A. IBM Cloud Object Storage
- B. IBM Cloud Pak for Integration
- C. IBM Watson Assistant
- D. IBM Watson Studio

ANSWER: D

241. In networking, what enables data to be transmitted to multiple destinations simultaneously, increasing fault tolerance?

- A. Bandwidth
- B. Latency
- C. Load balancing
- D. Redundancy

ANSWER: C

242. What cloud type is suitable for scenarios where some resources need to remain on-premises while others can be in the cloud?

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

ANSWER: B

243. What is the primary advantage of IBM Cloud Block Storage over traditional on-premises storage solutions?

- A. Greater scalability
- B. Higher cost-effectiveness
- C. Increased security
- D. Lower latency

ANSWER: A

244. How does cloud computing enhance disaster recovery capabilities?

- A. By restricting backup frequency
- B. By relying solely on local backup systems
- C. Through limited data replication options
- D. By providing redundant data centers and geographic diversity

ANSWER: D

245. What does the acronym "SLA" stand for in cloud computing?

- A. Secure Login Authentication
- B. Service Level Agreement
- C. System Limitation Access
- D. Software Licensing Agreement

ANSWER: B

246. Which IBM Cloud feature provides a serverless compute service for building event-driven applications?

- A. IBM Cloud Functions
- B. IBM Cloud Virtual Servers
- C. IBM Cloud Foundry
- D. IBM Cloud Kubernetes Service

ANSWER: A

247. Which storage attribute ensures data availability even in the face of hardware failures?

- A. Durability
- B. Reliability
- C. Elasticity
- D. Scalability

ANSWER: A

248. How does IBM Cloud's "Availability Zone" architecture contribute to resilience?

- A. It provides fault tolerance within a single data center.
- B. It spreads resources across multiple countries.
- C. It prioritizes high availability across various zones.
- D. It ensures replication across different regions.

ANSWER: A

249. Which IBM Cloud Block Storage type is best suited for consistent, predictable performance at a fixed cost?

- A. Performance block storage
- B. General-purpose block storage
- C. Standard block storage
- D. Endurance block storage

ANSWER: A

250. What benefit does cloud computing offer in terms of maintenance and updates?

- A. Limited support for software updates
- B. Dependence on individual user's update schedule
- C. Regular manual updates required for each user
- D. Reduced need for manual maintenance and updates

ANSWER: D

251. What benefits does IBM Cloud's "Single Zone" infrastructure offer?

- A. Data replication across multiple regions.
- B. Increased fault tolerance within a single availability zone.
- C. Enhanced redundancy within a single data center.
- D. High availability across various data centers.

ANSWER: C

252. What technology allows multiple virtual machines to run on a single physical machine?

- A. Switch
- B. Firewall
- C. Router
- D. Hypervisor

ANSWER: D

253. Which cloud computing model offers the highest level of control and customization?

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

ANSWER: B

254. Which IBM Cloud service provides tools for monitoring, analyzing, and optimizing cloud resources and applications?

- A. IBM Cloud Monitoring
- B. IBM Cloud Security Advisor
- C. IBM Cloud Pak for Application
- D. IBM Cloud Virtual Servers

ANSWER: A

255. Which IBM Cloud Block Storage type is designed for sustained high performance workloads?

- A. General-purpose block storage
- B. Performance block storage
- C. Endurance block storage
- D. Standard block storage

ANSWER: B

256. Which of the following architecture does Docker uses?

- A. Master-slave
- B. peer to peer
- C. Client-Server
- D. Layered

ANSWER: C

257. What is the maximum capacity offered by IBM Cloud Block Storage?

- A. 10 TB
- B. 100 TB
- C. 50 TB
- D. 500 TB

ANSWER: D

258. How does IBM Cloud Block Storage contribute to data resilience?

- A. By mirroring data across multiple regions
- B. Via automated snapshots and backups
- C. Through automatic encryption of data at rest
- D. By enforcing strict access control policies

ANSWER: B

259. Which IBM Cloud Block Storage type is suitable for workloads with varying performance requirements?

- A. General-purpose block storage
- B. Endurance block storage
- C. Standard block storage
- D. Performance block storage

ANSWER: A

260. What benefit does cloud computing provide in terms of global reach?

- A. Provides global accessibility and reach
- B. Increases network latency
- C. Limits access to specific regions
- D. Restricts access to specific time zones

ANSWER: A

261. What is a primary security concern associated with cloud computing?

- A. Lack of vendor lock-in
- B. Data privacy and compliance
- C. Decreased network latency
- D. Limited accessibility

ANSWER: B

262. Which tool is commonly used for source code version control in DevOps?

- A. Docker
- B. Jenkins
- C. Git
- D. Ansible

ANSWER: C

263. What is the goal of Continuous Integration (CI) in DevOps?

- A. To manually test applications
- B. To automate the process of integrating code changes
- C. To deploy applications directly to production
- D. To create isolated development environments

ANSWER: B

264. What is cloud computing?

- A. The use of personal computers to store and process data
- B. The use of mobile devices to store and process data
- C. The use of remote servers to store, manage, and process data
- D. The use of local servers to store and process data

ANSWER: C

265. What are the key components of DevOps?

- A. All of the mentioned
- B. Continuous Testing
- C. Continuous Integration
- D. Continuous Delivery & Monitoring

ANSWER: A

266. Which IBM Cloud Block Storage type offers the highest IOPS (Input/Output Operations Per Second)?

- A. General-purpose block storage
- B. Performance block storage
- C. Standard block storage
- D. Endurance block storage

ANSWER: B

267. What is the primary objective of IBM Cloud's "Multi-Zone" setup?

- A. High fault tolerance within a single data center
- B. Replication and resilience across multiple regions
- C. Geographic dispersion across continents
- D. Enhanced redundancy across various zones

ANSWER: B

268. In IBM Cloud, what does the term "Region" signify?

- A. A single availability zone with high fault tolerance
- B. A collection of data centers in different countries
- C. An isolated location within a country
- D. A single data center with multiple availability zones

ANSWER: A

269. Which feature ensures high durability and availability in IBM Cloud Block Storage?

- A. Automated snapshots
- B. Redundant storage architecture
- C. Multi-region replication
- D. Automated encryption

ANSWER: B

270. Which of the following is a key advantage of cloud computing?

- A. Increased hardware dependency
- B. Limited accessibility
- C. On-demand resource provisioning
- D. Reduced scalability

ANSWER: C

271. What does IBM Cloud's "Single Zone" Infrastructure primarily emphasize?

- A. Local redundancy within a single data center
- B. High availability across multiple regions
- C. Geographical dispersion across continents
- D. Redundancy across multiple data centers

ANSWER: A

272. How does cloud computing contribute to faster deployment of applications and services?
- A. By providing instant access to resources and tools
 - B. By requiring physical installation on each device
 - C. Through complex deployment procedures
 - D. By limiting compatibility with different platforms

ANSWER: A

273. Which aspect of cloud computing enhances collaboration and remote work?
- A. Restricted data sharing capabilities
 - B. Dependence on physical office environments
 - C. Enhanced sharing and real-time collaboration features
 - D. Limited communication tools

ANSWER: C

274. What cloud type involves infrastructure shared by several organizations with common concerns, such as security or compliance requirements?
- A. Community Cloud
 - B. Public Cloud
 - C. Private Cloud
 - D. Hybrid Cloud

ANSWER: A

275. What IBM Cloud offering ensures the confidentiality and integrity of data stored in the cloud using encryption and key management?
- A. IBM Cloud Security Advisor
 - B. IBM Key Protect
 - C. IBM Cloud Secure Gateway
 - D. IBM Cloud Hyper Protect Crypto Services

ANSWER: D

276. How does cloud computing impact the upgrade cycle of software and applications?
- A. Reduces the need for manual updates and maintenance
 - B. Increases the frequency of manual updates
 - C. Limits access to software upgrades
 - D. Slows down the deployment of new features

ANSWER: A

277. Which type of organizations typically utilize hybrid clouds?
- A. Government agencies only
 - B. Small startups exclusively
 - C. Educational Institutions solely
 - D. Large enterprises with diverse needs

ANSWER: D

278. What is a primary benefit that attracts organizations to adopt private cloud services?
- A. Higher resource sharing among multiple organizations
 - B. Unrestricted access from any location
 - C. Enhanced control and compliance with specific regulations
 - D. Lower security standards compared to public clouds

ANSWER: C

279. Which of the following is a characteristic of a private cloud?
- A. Isolated resources for a single organization
 - B. Shared resources among multiple organizations
 - C. Scalable for any user on the internet
 - D. Lower security compared to other models

ANSWER: A

280. What defines a hybrid cloud?

- A. A cloud accessible to the general public over the internet
- B. A cloud exclusively for government use
- C. Integration of multiple public and private cloud environments
- D. A cloud located in remote and inaccessible areas

ANSWER: C

281. What is a primary benefit that attracts organizations to adopt public cloud services?

- A. Total control over infrastructure
- B. Low initial investment
- C. Restricted scalability
- D. Limited geographical reach

ANSWER: B

282. What term describes using multiple cloud services to manage workloads?

- A. Cloud sourcing
- B. Cloud aggregation
- C. Cloud bundling
- D. Multi-cloud

ANSWER: D

283. Which cloud model gives more control over resources and infrastructure to an organization?

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

ANSWER: B

284. Which of the following is a characteristic of a hybrid cloud?

- A. Lower security compared to other cloud models
- B. Shared resources among multiple organizations
- C. Flexibility in workload distribution
- D. Isolated resources for a single organization

ANSWER: C

285. What does the term "seamless integration" often refer to in hybrid cloud services?

- A. Complicated security protocols
- B. Smooth data and application portability between environments
- C. Difficult integration between public and private clouds
- D. Separate and isolated management interfaces

ANSWER: B

286. Which of the following is an example of a well-known IaaS provider?

- A. Salesforce
- B. Oracle Cloud
- C. Microsoft Azure
- D. Heroku

ANSWER: C

287. What advantage does a hybrid cloud primarily offer?

- A. Enhanced security compared to other models
- B. Cost-effectiveness due to shared infrastructure
- C. Greater flexibility in managing workloads
- D. Complete isolation of resources

ANSWER: C

288. What advantage does SaaS primarily offer to users?

- A. High upfront infrastructure costs
- B. Limited accessibility from remote locations
- C. Reduced maintenance and automatic updates
- D. Complete control over software customization

ANSWER: C

289. What is a potential challenge or concern related to using a public cloud?

- A. Limited availability of resources
- B. Security and privacy risks
- C. Higher control over data
- D. Lower cost compared to private clouds

ANSWER: B

290. What advantage does a private cloud primarily offer?

- A. Cost-effectiveness due to shared infrastructure
- B. Higher scalability for diverse users
- C. Enhanced control and security over resources
- D. Flexibility in resource sharing

ANSWER: C

291. What does PaaS stand for in cloud computing?

- A. Program as a System
- B. Platform as a Service
- C. Protocol as a Service
- D. Platform and Software

ANSWER: B

292. What defines a public cloud?

- A. A cloud located in a public area
- B. Exclusively for government use
- C. Accessible to the general public over the internet
- D. Accessible only to a specific organization

ANSWER: C

293. What defines a private cloud?

- A. Accessible only to a specific organization
- B. A cloud located in a private physical location
- C. Exclusively for government use
- D. Accessible to the general public over the internet

ANSWER: A

294. What advantage does a public cloud offer?

- A. Higher security compared to other models
- B. Complete control over resources
- C. Cost-effectiveness due to shared infrastructure
- D. Limited accessibility

ANSWER: C

295. What is a common security concern in cloud computing?

- A. Reduced scalability
- B. Limited data accessibility
- C. Vendor lock-in
- D. Increased control over data

ANSWER: C

296. Which IBM Cloud service provides a platform for managing and monitoring edge devices?

- A. IBM Cloud Activity Tracker
- B. IBM Cloud Log Analysis
- C. IBM Edge Application Manager
- D. IBM Watson IoT® Platform

ANSWER: D

297. Which deployment model allows for resources shared between several organizations?

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

ANSWER: D

298. What is a key benefit of live migration in virtualization?

- A. Enhancing data encryption
- B. Minimizing downtime during maintenance
- C. Reducing power consumption
- D. Improving user authentication

ANSWER: B

299. What is the main advantage of virtualization in a cloud environment?

- A. Increased network bandwidth
- B. Enhanced physical security
- C. Improved software compatibility
- D. Decreased hardware costs

ANSWER: D

300. What security advantage does virtualization offer in cloud environments?

- A. Enhanced physical access control
- B. Isolation between virtual machines
- C. Improved perimeter security measures
- D. Decreased encryption overhead

ANSWER: B

301. What does a hypervisor do in virtualization technology?

- A. Allocates IP addresses
- B. Encrypts data in transit
- C. Controls virtual machines
- D. Manages network traffic

ANSWER: C

302. What is a primary advantage of using virtual appliances in cloud environments?

- A. Increased hardware dependency
- B. Limited scalability options
- C. Simplifies deployment and management
- D. Decreased reliance on hypervisors

ANSWER: C

303. What is a key advantage of using serverless architecture?

- A. Higher level of control over server configurations
- B. Reduced operational overhead and infrastructure management
- C. Elimination of vendor lock-in
- D. Lower latency in data processing

ANSWER: B

304. In serverless computing, what is the billing model typically based on?

- A. The time servers are actively running
- B. The amount of data processed
- C. The amount of code executed and resource consumption
- D. The number of active users

ANSWER: C

305. Which layer of cloud architecture is primarily responsible for managing virtualized resources?

- A. Network Layer
- B. Application Layer
- C. Platform Layer
- D. Infrastructure Layer

ANSWER: D

306. What is a virtual machine (VM)?

- A. A physical computer
- B. A mobile device
- C. A software-based emulation of a physical computer
- D. A server operating system

ANSWER: C

307. Which AWS service integrates with load balancers to automatically scale the number of instances based on incoming traffic?

- A. AWS Lambda
- B. AWS Route 53
- C. AWS Auto Scaling
- D. AWS CloudFront

ANSWER: C

308. What defines a public cloud?

- A. A cloud located in a private physical location
- B. Accessible to the general public over the internet
- C. A cloud exclusively for government use
- D. Accessible only to a specific organization

ANSWER: B

309. How does virtualization contribute to resource optimization in the cloud?

- A. By efficiently utilizing physical resources
- B. By increasing hardware dependency
- C. By limiting software scalability
- D. By restricting network access

ANSWER: A

310. Which feature in VPC allows you to control inbound and outbound traffic to AWS instances?

- A. NAT Gateways
- B. Security Groups
- C. VPN Connections
- D. Subnets

ANSWER: B

311. Which type of virtualization technology allows multiple virtual machines to run on a single physical machine?

- A. Server Virtualization
- B. Application Virtualization
- C. Storage Virtualization
- D. Network virtualization

ANSWER: A

312. What advantage does a private cloud primarily offer?

- A. Enhanced control and security over resources
- B. Higher scalability for diverse users
- C. Cost-effectiveness due to shared infrastructure
- D. Flexibility in resource sharing

ANSWER: A

313. Which of the following is a benefit of using multiple subnets within a VPC?

- A. All of the above
- B. Enhanced security
- C. Better performance
- D. Improved fault tolerance

ANSWER: A

314. Which of the following is another name for the system virtual machine?

- A. Real machine
- B. Hardware virtual machine
- C. Software virtual machine
- D. None of the mentioned

ANSWER: B

315. The technology used to distribute service requests to resources is referred to as _____

- A. Load balancing
- B. Load scheduling
- C. Load performing
- D. All of the mentioned

ANSWER: A

316. What defines a private cloud?

- A. A cloud located in a public area
- B. Exclusively for government use
- C. A cloud accessible only to a specific organization
- D. Accessible to the general public over the internet

ANSWER: C

317. What is the primary function of a load balancer in a network infrastructure?

- A. To manage internal network communication
- B. To evenly distribute incoming traffic across multiple servers
- C. To secure the network from external threats
- D. To optimize internet bandwidth

ANSWER: B

318. What is the primary benefit of using serverless architecture in terms of cost?

- A. Upfront payment for server resources
- B. Pay-as-you-go billing based on resource usage
- C. Predictable fixed pricing
- D. Bulk discounts on resource consumption

ANSWER: B

319. What is the purpose of health checks in a load balancer configuration?

- A. To ensure servers are running and available to handle traffic
- B. To monitor server resource utilization
- C. To prioritize specific types of traffic
- D. To encrypt incoming traffic

ANSWER: A

320. In virtualization, what is a host system?

- A. The operating system running on a remote server
- B. The main operating system running on a physical machine
- C. The operating system installed on a virtual machine
- D. The operating system running on a mobile device

ANSWER: B

321. What is the difference between a monolithic and microservices architecture?

- A. Monolithic architecture is a group of small, simple services, while microservices are large, complex services.
- B. Monolithic architecture is a single, large, complex service, while microservices are small, autonomous services.
- C. Monolithic architecture is a single, small, simple service, while microservices are large, complex services.
- D. Monolithic architecture is a group of large, complex services, while microservices are small, autonomous services.

ANSWER: B

322. What are some benefits of using microservices?

- A. Flexibility
- B. Scalability
- C. Resilience
- D. All of the mentioned

ANSWER: D

323. What is the benefit of virtualization?

- A. Increased IT productivity, efficiency, agility, and responsiveness.
- B. All of Mentioned
- C. Faster provisioning of applications and resources.
- D. Reduced capital and operating costs.

ANSWER: B

324. What are the features of Kubernetes?

- A. All of the mentioned
- B. Auto-scalable infrastructure
- C. Containerized infrastructure
- D. Higher density of resource utilization

ANSWER: A

325. Which type of load balancer operates at Layer 4 (Transport Layer) of the OSI model and can balance traffic based on network and transport layer information?

- A. Global Load Balancer (GLB)
- B. Application Load Balancer (ALB)
- C. Network Load Balancer (NLB)
- D. Classic Load Balancer (CLB)

ANSWER: C

326. What type of cloud storage is IBM Object Storage primarily used for?

- A. Unstructured data
- B. Temporary data
- C. Structured data
- D. Backup storage

ANSWER: A

327. _____ is the property of a cloud to grow or shrink capacity for CPU, memory, and storage resources to adapt to the changing demands of an organization.

- A. Resiliency
- B. Elasticity
- C. Scalability
- D. None

ANSWER: B

328. In India, where is the IBM Cloud Data Center located?

- A. Bangalore
- B. Mumbai
- C. Chennai
- D. Hyderabad

ANSWER: C

329. What is the purpose of a Kubernetes StatefulSet?

- A. To deploy and manage stateful applications with unique identities
- B. To deploy stateless applications
- C. To scale pods horizontally
- D. To manage environment variables

ANSWER: A

330. What is the purpose of Infrastructure as Code (IaC) in DevOps?

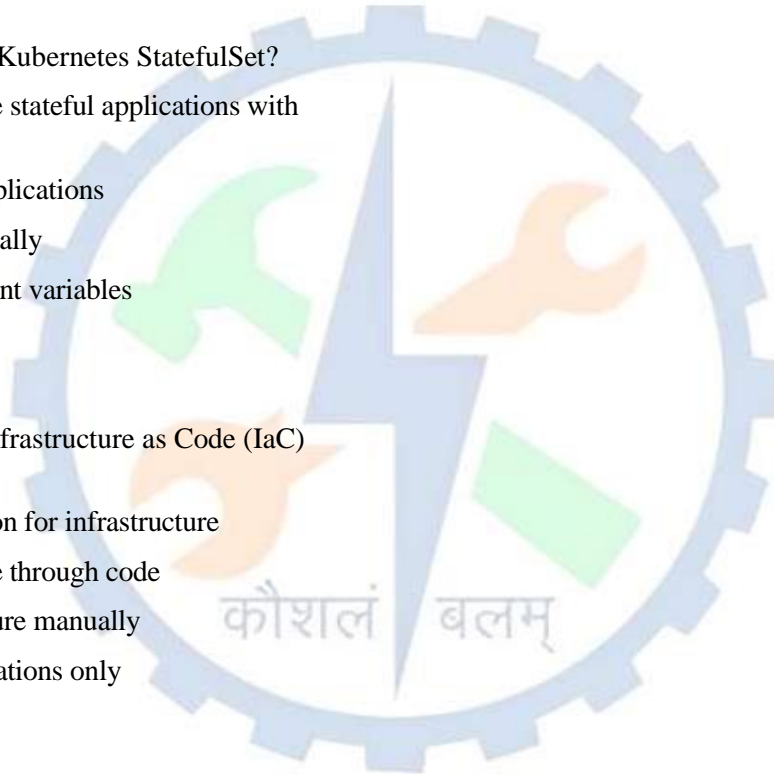
- A. Creating documentation for infrastructure
- B. Managing infrastructure through code
- C. Configuring infrastructure manually
- D. Writing code for applications only

ANSWER: B

331. A Container _____.

- A. Can be run on local machines, virtual machines, or deployed to the cloud
- B. Is portable
- C. Is a runnable instance of an image
- D. All of the mentioned

ANSWER: D



Directorate General of Training