1) **What is a Docker container?**
    a. **A running instance of a Docker image**
    b. A lightweight virtual machine
    c. A storage volume
    d. A service running on Docker Swarm

2) **Which of the following is true about a private cloud?**
    a. It is highly scalable and accessible to the public.
    b. It is owned and operated by multiple organizations.
    c. **It offers greater control and security compared to public clouds.**
    d. It relies on third-party providers for management

3) **What type of organization typically utilizes a private cloud?**
    a. Small businesses
    b. **Government agencies**
    c. Individual consumers
    d. Non-profit organizations

4) **What is Amazon Route 53 primarily used for?**
    a. Database management
    b. Content delivery
    c. **Domain Name System (DNS) web service**
    d. Virtual private networking

5) **Which volume type is designed for frequently accessed workloads and provides a balance of price and performance?**
    a. **General Purpose SSD (gp2)**
    b. Provisioned IOPS SSD (io1)
    c. Throughput Optimized HDD (st1)
    d. Magnetic (standard)

6) **What is the maximum number of VPN connections supported by AWS VPN?**
    a. 1
    b. 5
    c. 10
    d. **50**

7) Which load balancer type provides support for TCP and UDP traffic?
    a. Network Load Balancer
    b. Application Load Balancer
    c. Classic Load Balancer
    d. None of the above

8) Which of the following is a managed load balancing service provided by AWS?
    a. Elastic Beanstalk
    b. Elastic Load Balancing
    c. Amazon EC2
    d. Amazon S3

9) Which AWS service is used to manage AWS VPN connections?
    a. AWS Direct Connect
    b. AWS VPN CloudHub
    c. Amazon VPC
    d. AWS Management Console

10)   What is the purpose of AWS VPN?
    a. To distribute application traffic across multiple targets.
    b. To store and retrieve data objects.
    c. To establish secure connections between on-premises networks and AWS.
    d. To manage virtual private networks (VPNs) within an AWS VPC.

11)   What is Amazon EBS primarily used for?
    a. Object storage
    b. File storage
    c. Block-level storage
    d. NoSQL database storage

12) What type of storage does Amazon S3 provide?
   a. Block-level storage
   b. File-level storage
   c. Object storage
   d. NoSQL database storage

13) Which of the following is NOT an instance type offered by Amazon EC2?
   a. T2
   b. M5
   c. R4
   d. X1

14) Which AWS service can be used to monitor the status and health of VPN connections?
   a. AWS CloudTrail
   b. AWS CloudWatch
   c. Amazon VPC Flow Logs
   d. AWS VPN CloudHub

15) Which AWS service enables you to publish custom metrics to Amazon CloudWatch?
   a. AWS Lambda
   b. AWS S3
   c. Amazon RDS
   d. Amazon EC2

16) Which of the following database engines is not supported by Amazon RDS?
   a. MYSQL
   b. Postgress
   c. MongoDB
   d. Oracle

17) Which load balancer type operates at the transport layer (Layer 4) of the OSI model?
   a. Network Load Balancer
   b. Application Load Balancer
   c. Classic Load Balancer

d. None of the above

18) What is the minimum size for an Amazon EBS volume?
   a. 1GB
   b. 10GB
   c. 100GB
   d. 1TB

19) Which of the following is a benefit of a private cloud?
   a. Reduced control over security
   b. Lower initial investment compared to public clouds
   c. Increased customization and control over resources
   d. Dependency on third-party providers for maintenance

20) Protocols are supported for receiving emails in Amazon SES?
   a. SMTP and IMAP
   b. POP3 and HTTP
   c. FTP and SSH
   d. SNMP and TCP

21) What does the Dockerfile contain?
   a. Compiled source code
   b. Docker images
   c. Binary data
   d. Instructions for building a Docker image

22) Which AWS service allows you to create and manage a virtual private cloud (VPC)?
   a. AWS CloudTrail
   b. AWS config
   c. AWS CloudFormation
   d. Amazon VPC

23) What does Amazon RDS stand for?
   a. **Relational Database Service**
   b. Redshift Database Service

c. Reliable Data Storage
d. Remote Database Service

24)   Which service is used to scale EC2 instances automatically based on demand?
a. Amazon RDS
b. AWS Lambda
c. Amazon EC2 Auto Scaling
d. Amazon ECS

25)   What is the maximum size of a single object that can be stored in Amazon S3?
a. 1 GB
b. 5 GB
c. 10 GB
d. 5TB

26)   What is an Amazon Machine Image (AMI) in AWS?
a. A type of database service
b. A pre-configured template for creating virtual servers
c. A tool for monitoring network traffic
d. A security feature for protecting data at rest

27)   Which AWS service is responsible for managing backups in Amazon RDS?
a. Amazon S3
b. Amazon RDS itself
c. Amazon Glacier
d. Amazon EBS

28)   What feature allows you to create point-in-time snapshots of Amazon EBS volumes?
a. Amazon Glacier
b. Amazon S3
c. Amazon EBS Snapshots
d. Amazon CloudWatch

29) **Which VPN protocol is commonly used with AWS VPN?**
   a. SSL/TLS VPN
   b. PPTP VPN
   c. IPsec VPN
   d. L2TP VPN

30) **Which AWS service allows you to reserve capacity for EC2 instances and reduce costs?**
   a. AWS Cost Explorer
   b. AWS Budgets
   c. AWS Trusted Advisor
   d. AWS Savings Plans

31) **Which AWS service provides a fully managed virtual private cloud for running containerized applications?**
   a. Amazon EC2
   b. Amazon S3
   c. Amazon VPC
   d. Amazon ECS

32) **What is the purpose of a VPN in the context of network security?**
   a. To encrypt data between the client and the server.
   b. To provide secure remote access to a private network.
   c. To prevent unauthorized access to a website.
   d. To optimize network performance.

33) **What does PaaS stand for?**
   a. Platform as a service
   b. Platform as a software
   c. Parallel as a service
   d. None

34) **Which of the following instance types in Amazon EC2 is optimized for high-performance databases and large-scale in-memory caching?**
   a. T2 instances
   b. M5 instances

c. **R5 instances**
   d. C5 instances

35)   **What is the maximum number of Elastic IP addresses that can be associated with an EC2 instance by default?**
   a. 5
   b. 10
   c. 50
   d. 20

36)   **What is the default durability level provided by Amazon S3 for storing objects?**
   a. 99.90%
   b. 99.99%
   c. 99.999999999% (11 9's)
   d. 99.9999999% (9 9's)

37)   **Which AWS service can be integrated with Amazon S3 for data transfer and processing?**
   a. Amazon EC2
   b. Amazon DynamoDB
   c. AWS Lambda
   d. All of the above

38)   **Which of the following volume types offers the highest level of performance?**
   a. General Purpose SSD (gp2)
   b. Provisioned IOPS SSD (io1)
   c. Cold HDD (sc1)
   d. Throughput Optimized HDD (st1)

39)   **What is Amazon Redshift primarily used for?**
   a. Document storage
   b. Real-time data processing
   c. Data warehousing and analytics

d. Content delivery

40) Which service is used to create a logically isolated section within the AWS Cloud?
   a. VPC
   b. Route53
   c. VPN
   d. S3

41) Which service provides domain registration and DNS web service?
   a. VPC
   b. Route53
   c. VPN
   d. S3

42) What does VPN stand for?
   a. Virtual Public Network
   b. Virtual Personal Network
   c. Virtual Private Network
   d. Virtual Protected Network

43) Which AWS service is used to establish a secure connection between an on-premises network and an AWS VPC?
   a. VPC Peering
   b. Direct Connect
   c. VPN
   d. Route53

44) Which service provides scalable DNS web services?
   a. VPC
   b. Route53
   c. VPN
   d. S3

45) How does VPC help with network security in AWS?

a. It provides encryption for data in transit.
b. **It isolates resources and provides control over inbound and outbound traffic.**
c. It provides secure access to AWS services.
d. It ensures compliance with industry standards.

46) **Which AWS service is used to route traffic between different VPCs or networks?**
a. **VPC Peering**
b. Direct Connect
c. VPN
d. Route53

47) **Which protocol is commonly used for VPN connections?**
a. **HTTP**
b. UDP
c. TCP
d. IPSec

48) **What is the most important concern of cloud computing?**
a. Cost
b. Space
c. **Security**
d. Platform

49) **In cloud computing, the client is on which end.**
a. Backend
b. **Frontend**
c. Depends
d. Both a and b

50) **In which year was Google Compute Engine released?**
a. 2019
b. 2009
c. **2012**
d. 2006

51)   Which type of database does Amazon Redshift belong to?

a. Relational database

b. NoSQL database

c. Columnar database

d. Graph database

52)   What does Amazon RDS stand for?

a. Relational Database Service

b. Redshift Database Service

c. Reliable Data Storage

d. Remote Database Service

53)   What type of database is Amazon DynamoDB?

a. Relational database

b. NoSQL database

c. Graph database

d. Document database

54)   Which Elastic Load Balancer type provides support for routing traffic based on content of the request, such as URL path or host?

a. Application Load Balancer (ALB)

b. Network Load Balancer (NLB)

c. Classic Load Balancer (CLB)

d. None of the above

55)   How does Elastic Load Balancing enhance the availability of applications?

a. By distributing incoming traffic across multiple targets

b. By automatically replicating data across multiple regions

c. By encrypting data in transit

d. By implementing firewalls at the network perimeter

56)   How are Amazon Machine Images (AMIs) stored?

a. In Amazon S3 buckets

b. In Amazon RDS instances

c. In Amazon EBS volumes

d. In Amazon CloudFront distributions

57) **How does Amazon S3 Glacier ensure data durability?**
a. By replicating data across multiple Availability Zones
b. By replicating data across multiple regions
c. By using cross-region replication
d. By storing data across multiple facilities in a region

58) **Total types of cloud computing services are?**
a. 1
b. 2
c. 3
d. 4

59) **Which service in AWS is used for managing user access and permissions?**
a. S3
b. IAM
c. EC2
d. RDS

60) **Which of the following is a valid IAM entity in AWS?**
a. Group
b. Role
c. User
d. All of the above

61) **What is an IAM role used for?**
a. Authenticating users
b. Defining policies for resources
c. Granting temporary permissions
d. Managing billing information

62) **Which component of Docker is responsible for creating and managing containers?**
a. Docker Engine

b. Docker Hub
c. Docker Compose
d. Docker Swarm

63)   What is a Docker image?
a. A running instance of a Docker container
b. A lightweight virtual machine
c. A template for creating Docker containers
d. A container registry in the cloud

64)   What is Kubernetes?
a. An open-source container orchestration platform
b. A cloud storage service
c. A database management system
d. A programming language

65)   What is a Kubernetes deployment?
a. A configuration file for deploying a single container
b. A specification for scaling applications in a cluster
c. A tool for monitoring cluster performance
d. A command-line interface for managing Kubernetes resources

66)   What is the maximum message size allowed in SQS?
a. 64 KB
b. 256 KB
c. 1 MB
d. 10 MB

67)   Which type of messaging is supported by SQS?
a. Point-to-Point (P2P)
b. Publish-Subscribe
c. Both a and b
d. None of the above

68)   What is a topic in SNS?
a. A message queue

    b. A collection of subscribers
    c. A storage bucket
    d. A virtual machine instance

69) Which protocol is NOT supported by SNS for message delivery?
    a. HTTP
    b. HTTPS
    c. SMTP
    d. SMS

70) Which protocols are supported by SES for sending emails?
    a. SMTP
    b. RESTful API
    c. Both a and b
    d. None of the above

71) What is the maximum email size allowed in SES?
    a. 5 MB
    b. 10 MB
    c. 25 MB
    d. 50 MB

72) What is the maximum number of environments allowed per AWS account in Elastic Beanstalk?
    a. 5
    b. 10
    c. 25
    d. There is no limit

73) Which of the following is NOT a component of Elastic Beanstalk?
    a. Application version
    b. Environment
    c. Load Balancer
    d. Instance type

74) What is the purpose of Docker containers?

a. To manage virtual machines
b. To deploy web applications
c. **To package and run applications and their dependencies**
d. To monitor network traffic

75) **Which of the following statements about Docker containers is true?**
a. **Containers share the host operating system's kernel**
b. Each container has its own complete operating system
c. Containers are slower to start compared to virtual machines
d. Containers cannot be moved between different hosts

76) **What is a Docker image?**
a. A running instance of a container
b. A file system snapshot
c. **A template for creating containers**
d. A container registry

77) **How can you create a Docker container from a Dockerfile?**
a. Using the docker start command
b. Using the docker create command
c. Using the docker run command
d. **Using the docker build command**

78) **What is the purpose of a Dockerfile?**
a. To run commands inside a Docker container
b. To manage Docker container resources
c. **To define the environment and configuration for a Docker image**
d. To monitor Docker container performance

79) **Which command is used to list running Docker containers?**
a. docker list
b. **docker ps**
c. docker status
d. docker info

80) **How can you stop a running Docker container?**
a. docker kill <container_id>
b. docker stop <container_id>
c. docker pause <container_id>
d. docker remove <container_id>

81) **What is the purpose of Docker Hub?**
a. To provide networking for Docker containers
b. To store and share Docker images
c. To monitor Docker container performance
d. To manage Docker container configuration

82) **Which Docker command is used to remove a Docker image?**
a. docker delete
b. docker remove
c. docker rmi
d. docker erase

83) **Which of the following is a cloud?**
a. Hadoop
b. Web applications
c. Intranet
d. None

84) **What does SaaS stand for?**
a. Scalability as a service
b. Software as a service
c. Service as a software
d. None

85) **Total types of hypervisors are?**
a. 2
b. 3
c. 4
d. 5

86) Total types of PaaS are?
   a. 2
   b. 3
   c. 4
   d. 5

87) **GAE stands for?**
   a. Google apps engine
   b. Google applied to engineer
   c. Google architecture engineering
   d. None

88) **What does IaaS stand for?**
   a. Information as a service
   b. Infrastructure as a service
   c. Infrastructure as a software
   d. None

89) **What does IAM stand for in AWS?**
   a. Internet Access Management
   b. Identity and Access Management
   c. Infrastructure Access Management
   d. International Account Manager

90) **IAM policy documents are written in which format?**
   a. JSON
   b. XML
   c. YAML
   d. HTML

91) **Which of the following is not a component of IAM?**
   a. Roles
   b. Users
   c. Organizational Units
   d. Groups

92) **In AWS, IAM identities are categorized into how many parts?**
   a. 1
   b. 2
   c. 3
   d. 4

93) **What kind of data can you store in S3?**
   a. Images
   b. PDF files
   c. Word files
   d. All of the above

94) **What capacity of files can you store in S3?**
   a. 100TB
   b. 50TB
   c. 5TB
   d. 25TB

95) **What is the default registry used by Docker?**
   a. Docker Store
   b. Docker Hub
   c. Docker Registry
   d. Docker Repository

96) **How can you run a command inside an existing Docker container?**
   a. docker exec -it container_id /bin/bash
   b. docker run -it container_id /bin/bash
   c. docker start -it container_id /bin/bash
   d. docker attach -it container_id /bin/bash

97) **What is Docker?**
   a. Programming Language
   b. Text Editor
   c. Containerization Platform
   d. Web Server

98) **Which command is used to create a new Docker image?**
a. **docker build**
b. docker pull
c. docker run
d. docker commit

99) **What is Kubernetes?**
a. **An open-source container orchestration platform**
b. A container registry
c. A container runtime
d. A containerization tool

100) **What is a Kubernetes Pod?**
a. **A group of containers**
b. A unit of deployment in Kubernetes
c. A network segment
d. A virtual machine

101) **Kubernetes or K8S was built by which company?**
a. Meta
b. Apple
c. **Google**
d. Microsoft

102) **What is the basic operational unit of Kubernetes or K8S?**
a. Task
b. **Pod**
c. Nodes
d. Container

103) **What is AWS Elastic Beanstalk?**
a. A managed container orchestration service
b. A serverless computing platform
c. **A platform-as-a-service (PaaS) offering**
d. A database management system

104) **Which programming languages are supported by AWS Elastic Beanstalk?**
a. **Java, Python, and Ruby**
b. Java, C++, and PHP
c. Java, Ruby, and Perl
d. Java, C#, and JavaScript

105) **What is Amazon CloudWatch?**
a. A cloud storage service
b. A serverless compute service
c. **A monitoring and observability service**
d. A content delivery network

106) **What type of data does Amazon CloudWatch primarily collect and monitor?**
a. Network traffic
b. Log files
c. **Performance metrics and logs**
d. Storage capacity

107) **What is the purpose of CloudWatch Alarms?**
a. **To trigger automatic scaling actions**
b. To store log data
c. To create virtual private networks
d. To manage security groups

108) **What is Amazon SQS primarily used for?**
a. Data warehousing
b. **Messaging and queuing**
c. Content delivery
d. File storage

109) **What are the two types of queues in SQS?**
a. Standard and Express
b. Basic and Advanced
c. **FIFO and LIFO**

d. Simple and Complex

110)   What is Amazon SES primarily used for?
   a. File storage
   b. Messaging and notifications
   c. Sending and receiving emails
   d. Database storage

111)   What types of emails can be sent using Amazon SES?
   a. Only transactional emails
   b. Only marketing emails
   c. Both transactional and marketing emails
   d. Only internal emails

112)   What is Amazon SNS used for?
   a. Database storage
   b. Messaging and notifications
   c. Content delivery
   d. Virtualization

113)   What is the primary concept in SNS for delivering messages to multiple subscribers?
   a. Channels
   b. Topics
   c. Queues
   d. Buckets

114)   What is the primary purpose of AWS Directory Service?
   a. Host websites in the AWS Cloud
   b. Connect on-premises Active Directory to the AWS Cloud
   c. Manage virtual machines in AWS
   d. Monitor network traffic in real-time

115)   Which AWS service provides a fully managed Microsoft Active Directory in the AWS Cloud?
   a. AWS IAM

b. AWS Cognito
c. AWS Directory Service
d. AWS Lambda

116) **What does VPC stand for in the context of Amazon Web Services (AWS)?**
a. Virtual Private Connection
b. Virtualized Provisioning Control
c. Virtual Private Cloud
d. Visualized Processing Center

117) **What is the primary purpose of Amazon VPC?**
a. To manage virtual servers
b. To provide cloud storage
c. To create a private network within AWS
d. To analyze big data

118) **Which of the following is a valid IP address range for a VPC subnet?**
a. 10.0.0.0/8
b. 172.16.0.0/12
c. 192.168.0.0/16
d. **All of the above**

119) What is the primary benefit of leveraging cloud computing for businesses?
a. Increased physical security
b. Reduced operational costs
c. Decreased flexibility
d. Limited resource access

120) Which AWS service provides natural language processing capabilities to extract insights and relationships from text?
a. Amazon Lex
b. Amazon SageMaker
c. Amazon Comprehend
d. Amazon Forecast

121) In cloud computing, what does the term 'elasticity' refer to?
   a. The ability to stretch physical servers
   b. The flexibility in network configurations
   c. **The ability to scale resources up and down as needed**
   d. The stretchability of cloud storage

122) Which of the following is a key consideration for backup and recovery in the cloud?
   a. Color scheme of the interface
   b. Speed of internet connection
   c. **Frequency of backups**
   d. Type of coffee in the office

123) What is Amazon SageMaker used for?
   a. Building conversational interfaces
   b. Text-to-speech conversion
   c. **Building, training, and deploying machine learning models**
   d. Managing relational databases

124) Which AWS service is primarily used for identity and access management?
   a. AWS Lambda
   b. Amazon IAM
   c. Amazon S3
   d. **AWS IAM**

125) What is a primary legal challenge in cloud computing?
   a. Deciding on the color of the cloud
   b. **Copyright laws**
   c. Choosing cloud service providers
   d. Selecting the right cloud storage size

126) What does Amazon Lex specialize in?
   a. Machine Learning
   b. **Voice and text chatbot service**
   c. Text extraction from documents

d. Language translation

127) What is the purpose of Amazon Textract?
   a. Managing databases
   b. Extracting text and data from scanned documents
   c. Forecasting trends based on data
   d. Detecting fraudulent activities

128) Which of the following AWS services helps in fraud detection?
   a. Amazon Comprehend
   b. Amazon Forecast
   c. Amazon Fraud Detector
   d. Amazon Lex

129) Inter-country legal frameworks in cloud computing primarily address what?
   a. Color schemes for websites
   b. The legal interoperability of cloud services across borders
   c. Choosing the right coffee for developers
   d. The speed of internet connections

130) What role does Amazon Elastic Beanstalk play in AWS?
   a. Database management
   b. Email services
   c. Application deployment and management
   d. Virtual server management

131) How do AWS services contribute to business continuity?
   a. By providing physical storage
   b. Through online advertising
   c. By ensuring high availability and disaster recovery
   d. By offering employee training programs

132) Which AWS tool is used for comprehensive cloud security posture management?

a. Amazon Inspector
b. AWS Shield
c. AWS Security Hub
d. Amazon Guard Duty

133) What is the main benefit of using Amazon S3 for data storage?
a. Unlimited coffee supply
b. Scalability and durability
c. Instant data deletion
d. Limited storage capacity

134) Amazon RDS is designed to simplify what aspect of cloud computing?
a. Social networking
b. Relational database management
c. Email marketing
d. Video streaming

135) Amazon CloudFront is best described as what type of service?
a. A machine learning service
b. A global content delivery network service
c. An email sending service
d. A virtual server service

136) What feature of Amazon DynamoDB helps in maintaining fast performance as the database grows?
a. Cross-Region Replication
b. DynamoDB Accelerator (DAX)
c. Manual Sharding
d. SQL Query Layer

137) AWS WAF is primarily used for what purpose?
a. Protecting against web application exploits and bots
b. Email filtering
c. Data encryption
d. Performance monitoring

138) What is the primary function of Amazon QuickSight?

a. Real-time gaming
b. **Business analytics and visualization**
c. Social media analysis
d. Virtual desktop infrastructure

139) In the context of AWS, what are containers used for?
   a. Storing physical goods
   b. **Isolating and packaging applications**
   c. Encrypting data
   d. Managing user identities

140) What is Kubernetes primarily used for?
   a. **Container orchestration**
   b. Text translation
   c. Data encryption
   d. User authentication

141) Which service is used for deploying scalable applications on AWS?
   a. Amazon RDS
   b. **Elastic Beanstalk**
   c. Amazon EC2
   d. AWS IAM

142) What is AWS CloudFormation used for?
   a. Social media analytics
   b. **Provisioning application resources**
   c. Text-to-speech services
   d. Managing IoT devices

143) What does AWS Lambda allow developers to run?
   a. Physical servers in their office
   b. **Code without provisioning or managing servers**
   c. Only static websites
   d. A private social network

144) AWS IAM provides what type of control at a granular level?
   a. Coffee preferences
   b. **Access control to AWS services and resources**
   c. Website color schemes
   d. Email account configurations

145) The AWS Compliance program is designed to help organizations meet what type of requirements?
   a. Coffee quality standards
   b. **Regulatory compliance**
   c. Website design trends
   d. Social media marketing goals

146) What is a Docker container typically used for?
   a. Brewing coffee
   b. **Running applications in isolated environments**
   c. Storing physical goods
   d. Conducting online surveys

147) Which AWS service is specifically designed for real-time communication applications?
   a. **Amazon Chime**
   b. Amazon Connect
   c. Amazon SNS
   d. Amazon SES

148) What is the main advantage of using AWS Elastic Beanstalk over AWS EC2 directly?
   a. It provides unlimited storage
   b. **It automatically handles the deployment, from capacity provisioning, load balancing, and auto-scaling to application health monitoring**
   c. It offers free domain registration
   d. It allows for physical server access

149) What does Amazon Translate provide?
   a. Natural language processing
   b. Speech recognition
   c. Text translation services
   d. Fraud detection analysis

150) AWS Key Management Service is used for what purpose?
   a. Managing social media accounts
   b. Securing data by managing keys
   c. Provisioning computing instances
   d. Automating software deployment

151) What is the focus of AWS Security?
   a. Physical security of AWS data centers
   b. Provisioning and managing resources
   c. Protecting data and applications in the cloud
   d. Creating and managing user interfaces

152) What is a Docker primarily used for in cloud computing?
   a. Managing emails
   b. Containerization of applications
   c. Data analysis
   d. Game development

153) How does Amazon Forecast assist businesses?
   a. By providing email services
   b. By detecting fraudulent activities
   c. By translating languages
   d. By predicting future trends based on historical data

154) Which AWS service helps in understanding and analyzing documents?
   a. Amazon Textract
   b. Amazon Comprehend
   c. Amazon Kendra

d. Amazon Forecast

155)   What is the main advantage of using Amazon Transcribe?
   a. Creating databases
   b. Voice to text conversion
   c. Managing access to AWS resources
   d. Building machine learning models

156)   The AWS Directory Service is primarily used for?
   a. Storing files in the cloud
   b. Database management
   c. Directory-based identity management
   d. Email marketing campaigns

157)   What is the primary purpose of data encryption in AWS?
   a. Improving website aesthetics
   b. Securing data at rest and in motion
   c. Increasing storage capacity
   d. Enhancing the speed of data transfer

158)   Which AWS service focuses on securing data during transmission?
   a. AWS Direct Connect
   b. AWS Key Management Service
   c. Amazon VPC
   d. Securing Data in Motion

159)   Amazon EC2 provides scalable computing capacity in the AWS cloud
   primarily for what purpose?
   a. Email archiving
   b. To reduce the time required to obtain and boot new server instances
   c. Physical server maintenance
   d. Printing services

160)   What does Amazon CloudWatch provide?
   a. Social media analytics

b. **Monitoring for AWS cloud resources and applications**
c. Cloud storage for photos
d. Email marketing tools

161) Which AWS service is used for collaborative software development and version control?
   a. **AWS Code Commit**
   b. Amazon S3
   c. AWS Lambda
   d. Amazon EC2

162) How does AWS ensure data protection and privacy?
   a. By offering free coffee
   b. **Through comprehensive security and compliance controls**
   c. By limiting internet speeds
   d. By encouraging paper record keeping

163) What does Amazon Route 53 effectively manage?
a. **Domain name system (DNS) records**
b. Coffee deliveries
c. Social media posts
d. Physical inventory

164) AWS Budgets is used for what primary purpose?
   a. Tracking coffee consumption
   b. **Managing cloud spending against budgets**
   c. Scheduling social media posts
   d. Email server configuration

165) Which feature of Amazon S3 ensures data is automatically replicated across multiple zones?
   a. S3 Versioning
   b. S3 Transfer Acceleration
   c. S3 Intelligent-Tiering
   d. **S3 Cross-Region Replication**

166) How does Amazon RDS Backup work for disaster recovery?
   a. By storing backups in a single availability zone
   b. **By automatically backing up the database to S3 in real time**
   c. By manual backup only
   d. By using AWS Backup service

167) What does AWS CloudTrail primarily monitor and record?
   a. CPU usage and performance metrics
   b. **User activity and API usage across AWS infrastructure**
   c. Email traffic
   d. Social media activity

168) Which AWS service offers a managed Kubernetes service?
   a. Amazon ECS
   b. **Amazon EKS**
   c. Amazon RDS
   d. Amazon S3

169) Amazon VPC allows users to do what?
   a. Launch virtual private networks
   b. **Provision a logically isolated section of the AWS cloud**
   c. Brew coffee virtually
   d. Store physical inventory in the cloud

170) What is the significance of data portability in cloud computing?
   a. **It allows data to be moved from one cloud provider to another easily**
   b. It involves carrying physical data servers
   c. It is a type of cloud storage
   d. It refers to mobile data plans

171) Which AWS service is focused on sending and receiving messages between software components?
   a. Amazon SES
   b. Amazon SNS

c. AWS Lambda
d. Amazon SQS

172) The main function of Amazon Kinesis is to?
a. Stream live video
b. Process and analyze real-time streaming data
c. Brew coffee
d. Provide social media analytics

173) What does Amazon Elastic Cache offer?
a. A web-based email service
b. A virtual reality platform
c. Improved performance for web applications by allowing you to retrieve information from fast, managed, in-memory caches
d. Physical storage units

174) The primary use of AWS Glue is for?
a. Web scraping
b. ETL (Extract, Transform, Load) services
c. Brewing coffee
d. Physical data storage

175) What challenge does AWS Direct Connect aim to solve?
a. It provides a dedicated network connection from on-premises to AWS
b. It solves the problem of insufficient coffee supplies
c. It addresses the issue of creating social media content
d. It focuses on improving physical server security

176) Which AWS service helps in understanding customer conversations and feedback?
a. Amazon Lex
b. Amazon Comprehend
c. Amazon Connect
d. Amazon Polly

177) How can AWS Lambda integrate with Amazon S3?
   a. **By triggering a Lambda function in response to S3 events**
   b. By storing Lambda function code in S3 only
   c. By converting S3 buckets into Lambda functions
   d. By using S3 to manually invoke Lambda functions

178) In terms of IAM, what is the best practice for granting permissions?
   a. Grant full access by default
   b. **Use IAM roles and temporary credentials when accessing services**
   c. Share root account credentials with team members
   d. Use a single IAM user for all employees

179) What is a characteristic of a hybrid cloud deployment model?

A. Limited scalability
B. Single-tenant architecture
C. Geographic restriction
D. Combination of public and private clouds

180) Which cloud deployment model provides a high level of security and control?

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

181) What is the main advantage of a hybrid cloud model?

A. Lower costs
B. Enhanced flexibility
C. Increased scalability
D. Improved security

182) Which cloud service model offers complete applications to end-users over the internet?

A. IaaS (Infrastructure as a Service)

B. PaaS (Platform as a Service)
C. SaaS (Software as a Service)
D. Cloud scalability

183)   In Amazon EC2, what is an instance type?

A. A template for virtual servers
B. A collection of storage devices
C. A specification for hardware
D. A security configuration

184)   What is the primary use case for Amazon EC2 instances?

A. Storing large amounts of data
B. Running virtual servers
C. Managing relational databases
D. Distributing content

185)   What is a key benefit of using Amazon EC2 for computing tasks?

A. High durability
B. Low latency
C. Elasticity of compute capacity
D. Unlimited storage

186)   What is the purpose of an Amazon EC2 security group?

A. To manage user permissions
B. To define firewall rules
C. To configure auto scaling policies
D. To monitor CPU usage

187)   What is the columnar storage used by Amazon Redshift designed for?

Real-time data processing
Analyzing large volumes of data quickly
OLTP applications
Transactional data processing

188)   Which AWS service is designed for IoT applications and time series data?

Amazon DynamoDB
Amazon Timestream
Amazon RDS
Amazon Redshift

189)   What type of cloud deployment model is accessible only by a single organization?

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

190)   Which cloud deployment model combines aspects of both public and private clouds?

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

191)   Which service model provides users with access to virtualized hardware resources over the internet?

A. IaaS (Infrastructure as a Service)
B. PaaS (Platform as a Service)
C. SaaS (Software as a Service)
D. Cloud scalability

192)   What does PaaS stand for in cloud computing?

A. Infrastructure as a Service
B. Platform as a Service
C. Software as a Service
D. Cloud scalability

193) What cloud service model allows users to access applications via the internet without installation?

A. IaaS (Infrastructure as a Service)
B. PaaS (Platform as a Service)
C. SaaS (Software as a Service)
D. Time to Market

194) Which feature of Auto Scaling helps maintain application availability and performance?

A. Launch configurations
B. Lifecycle hooks
C. Health checks
D. Load balancers

195) What is the primary storage engine used by Amazon DocumentDB?

MongoDB-compatible
SQL-compatible
PostgreSQL-compatible
Cassandra-compatible

196) Amazon RDS supports which of the following database engines?

MySQL, PostgreSQL, SQL Server, Oracle
MongoDB, Cassandra, DynamoDB
Redis, Memcached, Couchbase
MariaDB, SQLite, Firebase

197) In Amazon RDS, what is Multi-AZ deployment used for?

High availability
Data analytics
Data warehousing
Data archiving

198) Which AWS service is designed for petabyte-scale data warehousing?

Amazon Redshift
Amazon DynamoDB
Amazon RDS
Amazon DocumentDB

199)   What type of cloud service model offers ready-to-use software applications over the internet?

A. IaaS (Infrastructure as a Service)
B. PaaS (Platform as a Service)
C. SaaS (Software as a Service)
D. Cloud scalability

200)   What is the main characteristic of a public cloud?

A. Shared infrastructure
B. Limited accessibility
C. Geographic restriction
D. Private access

201)   What deployment model involves sharing computing resources among several organizations?

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

202)   What is one of the primary benefits of using a community cloud?

A. Limited access
B. Enhanced security
C. Geographic restriction
D. Shared concerns

203)   What is the role of the Amazon EC2 API?

A. To manage IAM policies
B. To provision virtual servers

C. To configure security groups
D. To monitor network traffic

204) What are the primary phases in the cloud data lifecycle?

Data generation, data storage
Data collection, data analysis
Data ingestion, data transformation
Data creation, data transmission

205) Which of the following is not a type of cloud data storage?

Object storage
Block storage
File storage
Relational database storage

206) Which Amazon storage service is designed for low-cost archiving and long-term backup?

S3 Glacier
S3 Standard
S3 Intelligent-Tiering
S3 One Zone-IA

207) What does the term "Buckets and Objects" refer to in Amazon S3 storage?

Buckets are containers for data objects, and objects are individual files stored within buckets
Buckets represent data regions, and objects are data partitions within those regions
Buckets are temporary storage areas, and objects are processed data units
Buckets serve as access control mechanisms, and objects are data encryption keys

208) Which storage service is ideal for managing vast amounts of structured data in the cloud?

Amazon S3
Amazon EBS
Amazon Glacier
Amazon RDS

209) What does IaaS stand for in cloud computing?

A. Internet as a Service
B. Infrastructure as a Service
C. Integration as a Service
D. Interface as a Service

210) Which cloud service model offers development tools and infrastructure to create and manage applications?

A. IaaS
B. PaaS
C. SaaS
D. DaaS

211) What is the primary focus of SaaS in cloud computing?

A. Providing hardware
B. Offering software
C. Delivering platforms
D. Supplying networking tools

212) Which cloud service model provides software applications over the internet on a subscription basis?

A. IaaS
B. PaaS
C. SaaS
D. MaaS

213) Which cloud service model offers virtualized hardware resources, including storage and networking?

A. IaaS

B. PaaS
C. SaaS
D. XaaS

214) What is the role of the Amazon EC2 API?

A. To manage IAM policies
B. To provision virtual servers
C. To configure security groups
D. To monitor network traffic

214)   What is the primary use case for Amazon EC2 instances?

A. Storing large amounts of data
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