**AWS Certified Cloud Practitioner (CPF) Practice Questions – Set 12**

1. Which is the most efficient AWS feature that allows a company to restrict IAM users from making changes to a common administrator IAM role created in all accounts in their organization?
   A. Shield
   B. IAM user policy
   C. GuardDuty IAM findings
   D. Service control policies (SCPs)

2. A developer wants to be alerted when an EC2 running their application is approaching 100% CPU utilization. Which service helps the developer do this in an automated way?
   A. Cost budgets in AWS Budgets
   B. CloudWatch
   C. CloudTrail
   D. CloudFormation

3. Which of the following are classified as migration services?(Choose 2)
   A. AWS Snowball
   B. AWS OpsWorks
   C. AWS Application Discovery Service
   D. AWS Config

4. A security administrator is setting up a new IAM user and has decided to grant the least privilege. What does the principle of least privilege mean?
   A. Granting permissions at the group level only
   B. Granting permission to only 1 user to perform a task
   C. Granting the minimum requirement to perform a task
   D. Granting permissions to only users that have MFA enabled on their account

5. A DevOps engineer is planning for the deployment of an application that can't be impacted if an entire geographic location is affected by a disaster. How can the engineer deploy this application?
   A. Place a load balancer in front of the application.
   B. Deploy the application to multiple Regions.
   C. Deploy the application to multiple VPCs.
   D. Deploy the application to multiple subnets.

6. A customer has created an Administrators group in IAM containing 5 users. What does the customer attach to the group to ensure all the users have the needed administrative access?
   A. IAM policy

B. IAM role

C. Service control policies (SCPs)

D. IAM service role

7. A large manufacturing company would like to provide real-time feedback to machine operators regarding optimum machine speeds enabling less experienced operators to detect breaks earlier and maintain quality. Which service will allow the company to train and deploy a machine learning model that can detect machine issues early?

    A. SageMaker

    B. Lex

    C. Polly

    D. Translate

8. How can a customer with the Enterprise Support plan get help with billing and account questions?(Choose 2)

    A. AWS Community Forums

    B. Contact the Support Concierge team.

    C. AWS Online Tech Talks

    D. Technical Account Manager (TAM)

    E. Use the AWS Support API to programmatically open a case with AWS Support.

9. Under the AWS shared responsibility model, who is responsible for the configuration of infrastructure devices?

    A. The responsibility to configure infrastructure devices is shared between the customer and AWS.

    B. The customer is responsible for the configuration of infrastructure devices.

    C. The responsibility to configure infrastructure devices is not part of the AWS shared responsibility model.

    D. AWS is responsible for the configuration of infrastructure devices.

10. A company is hosting a public-facing static website out of an S3 bucket. When reviewing website analytics and traffic, the company is surprised to learn the website is accessed by millions of users around the globe. The company wants to ensure all its users are seeing fast response times. Which AWS service will help to deliver this website globally with low latency?

    A. CloudFormation

    B. S3 Transfer Acceleration

    C. WAF

  D. CloudFront

11. How can Auto Scaling help your resources handle changes on demand?

  A. By increasing or decreasing the size of your EC2 instances based on conditions you specify

  B. By adding or removing storage based on conditions you specify

  C. By adding or removing EC2 instances from your EC2 fleet based on conditions you specify

  D. By increasing or decreasing the size of your storage based on conditions you specify

12. A company that owns several warehouses (used to store and resell millions of like-new, open-box, and pre-owned items) would like to analyze images from their on-premises cameras to automatically detect if employees are wearing head covers (helmets) and other protective equipment. Which service can be used be used to perform the image analysis?

  A. Polly

  B. Lex

  C. Translate

  D. Rekognition

13. You need to stream data in real time for a dashboard application. Which AWS service would you use?

  A. Amazon Redshift

  B. AWS CloudTrail

  C. AWS CloudWatch

  D. AWS Kinesis

14. As an IT support center team member, you begin receiving calls from users about problems they're experiencing with your company's AWS-based point-of-sale system. You want to begin your investigation by checking with AWS for any service alerts they may be communicating. Which AWS tool will you give you the information you seek?

  A. AWS Partner Network (APN)

  B. AWS Personal Health Dashboard

  C. Marketplace

  D. AWS Trusted Advisor

15. A project manager wants to identify, organize, search for, and filter all EC2 instances belonging to the Marketing department for budget management purposes. What is the best strategy for the project manager to identify Marketing resources?

     A. Use Systems Manager

     B. Talk with a Technical Account Manager (TAM)

     C. Use tags

     D. Open a case with AWS Support

16. A company would like to build an application that supports multiple languages. Which machine learning service allows the company to add localization to their application?

     A. Translate

     B. Rekognition

     C. Polly

     D. SageMaker

17. A company has designed a hybrid architecture and needs to connect its on-premises database to an application running on an EC2 instance in the AWS cloud using a fast, private, and secure manner. Which method allows the company to securely connect on-premises to the cloud?

     A. Public internet

     B. Direct Connect

     C. VPN tunnel using AWS VPN

     D. VPC peering

18. A company is considering migrating its applications to AWS. Which costs should the company consider when comparing its on-premises total cost of ownership (TCO) to the TCO when running on AWS?(Choose 3)

     A. Data center cooling, power, and space requirements

     B. Software development

     C. Help desk support costs

     D. Hardware and infrastructure

     E. Software license costs

19. You have upgraded your AWS Support plan to the Business Support level. What is true of the Business Support plan?

     A. < 15 minutes response time support when your production system goes down.

     B. < 24 hours response time support when your production system goes down.

     C. < 15 minutes response time support if your business-critical system goes down.

     D. < 1 hour response time support when your production system goes down.

20. A solutions architect is designing a new application for a customer. In designing the system, the architect recommends that content be cached to reduce latency to the end user. Which piece of the AWS global infrastructure allows for content to be cached and served from the nearest point to the user?
    A. Edge location
    B. Region
    C. AWS Outposts
    D. Availability Zone

21. A company is in the process of migrating its workloads to AWS, and they want to develop and implement security policies. What are some of the recommended best practices for Identity and Access Management (IAM) they can put in place to make sure their accounts are secure?(Choose 3)
    A. Grant users full access to just the services they need.
    B. Enable MFA for privileged users
    C. Create individual users instead of using root.
    D. Allow users to pick their own passwords that are easy to remember.
    E. Do not share access keys.

22. How can a customer on the Developer Support plan open a system impaired support case?
    A. Contact the Support Concierge team via phone.
    B. Contact the Technical Account Manager (TAM) via chat.
    C. Open a technical support case via chat.
    D. Open a technical support case via email.

23. A company is receiving automated alerts notifying them that their only production EC2 instance is continuously reaching 100% CPU utilization. When this happens, customers cannot make purchases and receive error messages stating they should try again later because all the company's servers are busy. As part of the solution, what could be used to add or replace EC2 instances of the same size automatically across AZs?
    A. Network Load Balancer
    B. Vertical scaling
    C. Horizontal scaling
    D. Application Load Balancer

24. A solutions architect is designing a system to withstand the failure of one or more components. What type of system is able to withstand failure?
    A. Durable
    B. Elastic

    C.  Highly available

    D.  Secure

25. A company has underutilized servers in its on-premises data center. Unfortunately, they are still required to pay for idle resources. Which benefit of the cloud can help the company solve this problem?

    A.  Loose coupling

    B.  High Availability

    C.  Security

    D.  Elasticity

26. Your organization is multi-national and uses multiple AWS Regions. Which AWS service can be used to route users to the nearest data center to reduce latency?

    A.  AWS Organizations

    B.  AWS VPC

    C.  AWS IAM

    D.  AWS Route 53

27. You need to visualize, understand, and identify trends for future charges, as well as manage your AWS costs and usage over time. Which AWS tool would you use?

    A.  AWS Cost Explorer

    B.  AWS Cost and Usage Report

    C.  Amazon CloudWatch

    D.  Trusted Advisor

28. Which AWS service can help you optimize your AWS environment by giving recommendations to reduce cost, increase performance, and improve security?

    A.  AWS Trusted Advisor

    B.  AWS CloudWatch

    C.  AWS Inspector

    D.  AWS Optimizations

29. Which of the following is used to secure Amazon S3 buckets?

    A.  Bucket access policy

    B.  API key

    C.  Access keys

    D.  Security group

30. A customer is migrating their on-premises data center to AWS and has bandwidth constraints. Which service allows them to transport exabyte-scale datasets into AWS in a cost-effective and secure manner?

    A.  Snowmobile

    B.  Snowcone

C. Snowball

D. DataSync

31. Configuring user permissions so that users can access only the resources they need to do their job follows what principle?

    A. Principle of least privilege

    B. Principle of organizations

    C. IAM principle

    D. Principle of minimum permissions

32. A company wants to provide access to an Amazon S3 bucket to all applications running on a Reserved Instance (RI) that's been assigned to a specific Availability Zone. What's the best way to give S3 access to all applications running on the EC2 instance?

    A. Use an instance profile to pass an IAM role with Amazon S3 permissions to the EC2 instance

    B. Use an IAM user

    C. Use an IAM policy with administrator access

    D. Use an IAM policy with Amazon S3 access

33. You need to set a number range of EC2 instances to be made available to handle the load for your application. Which AWS service should you use?

    A. Elastic Load Balancing

    B. AWS Auto Scaling

    C. Route 53

    D. AWS Systems Manager

34. In order to support their auditing and compliance efforts, a company needs to produce a report to audit the effects of password lifecycle requirements. How can they access a report that lists all users in their account along with the status of the various credentials?

    A. IAM credential report

    B. Redshift

    C. QuickSight

    D. AWS Artifact

35. A retail company has EC2 On-Demand Instances running to serve customer transactions. There is a set pattern of traffic where demand is high at 2 points in the day, but the instances sit idle for much of the day. What is a good way to optimize these resources?

    A. Use Reserved Instances instead of On-Demand Instances.

    B. Use an Auto Scaling group to scale out and in based on demand.

C. Write a script to stop instances when demand is low.

D. Use an elastic load balancer to scale out and in based on demand.

36. By default, what can a private subnet communicate with?(Choose 2)

   A. The internet

   B. Public subnets in a different VPC

   C. Public subnets in the same VPC

   D. Other private subnets in the same VPC

   E. Private subnets in a different VPC

37. A company is contemplating a move to the AWS Cloud. What benefits can be gained from such a move?

   A. The worry of long-term cost is eliminated.

   B. The company can focus on its business rather than managing a data center.

   C. There is no need to patch guest operating systems.

   D. All encryption is handled by AWS.

38. When monitoring the health of their application, a company notices one of their EC2 instances seems to handle a lot more traffic than the other instances. How can the company evenly distribute the traffic across all of its servers so that one server is not overwhelmed with requests?

   A. Server Migration System (SMS)

   B. Simple Notification Service (SNS)

   C. Elastic Load Balancing

   D. Auto Scaling

39. In which of the following is CloudFront content cached?

   A. Data center

   B. Availability Zone

   C. Region

   D. Edge location

40. In order to improve fault tolerance, you would like to begin using services that provide fault tolerance. Which AWS services provide automatic replication across Availability Zones?(Choose 2)

   A. DynamoDb

   B. VPC

   C. EC2

   D. S3

41. A financial company needs to migrate large amounts of data, at a petabyte scale, to AWS. Which AWS service can perform this type of migration?

    A. AWS Snowball

    B. Database Migration Service

    C. DataSync

    D. AWS Data Pipeline

42. A developer is building a new application and is given the option to deploy the application on-premises or to the AWS Cloud. What benefits does the AWS Cloud provide over an on-premises deployment?(Choose 3)

    A. Ability to grow and shrink computing capacity based on demand

    B. Automatic Multi-AZ deployment of databases to enhance availability

    C. Ability to focus on building the application instead of managing servers

    D. Ability to pay-as-you-go without upfront contracts or long-term commitments

    E. By default, AWS provides automatic distribution of applications across Regions for higher availability

43. Which service allows users to record software configuration changes within servers running on-premises over time?

    A. Config

    B. Trusted Advisor

    C. Inspector

    D. GuardDuty

44. You're hosting a web application on EC2. After a few days of production usage, you notice the traffic to the web application far exceeds what was expected. You've decided to move to a larger instance type. What AWS principle does this represent?

    A. Horizontal scaling

    B. Durability

    C. Vertical scaling

    D. Elasticity

45. A startup is developing a new application. They don't know how to anticipate the usage or workload demands for the application. Which benefit of cloud computing will allow the startup to automatically adjust compute capacity based on demand?

    A. Elasticity

    B. High availability

    C. Durability

    D. Agility

46. A customer set up an Amazon S3 bucket to accept downloads from their mobile application users. Due to data privacy requirements, the customer needs to automatically and continually scan S3 for the users' addresses. Which service can do this?
    A. Inspector
    B. GuardDuty
    C. Athena
    D. Macie

47. Which of the following is an AWS Well-Architected Framework design principle related to operational excellence?
    A. Scale horizontally for resilience.
    B. Use serverless architectures first.
    C. Assign only the least privileges required.
    D. Deploy smaller, reversible changes.

48. AWS VPC is a component of which of the following overall service categories?
    A. Migration Services
    B. Management Tools
    C. Database
    D. Storage
    E. Compute
    F. Networking and Content Delivery

49. Which of the following allows you to make entire buckets (like 1 hosting an S3 website) public?
    A. Access policies
    B. Access control lists
    C. Bucket policies
    D. Bucket control lists

50. A company wants to ensure all AWS accounts in their environment conform to company-wide policies. Which services can help?(Choose 2)
    A. Organizations
    B. Systems Manager
    C. Trusted Advisor
    D. Control Tower

51. A company would like someone to help them coordinate access to AWS subject matter experts when they need help. Which support plan do they need to have?
    A. Basic Support
    B. Developer Support

      C. Business

      D. Enterprise

52. A developer doesn't want to hardcode the database password in their application code when developing a new application. Which service will help with accessing the password without having to hardcode it?

      A. AWS Artifact

      B. Secrets Manager

      C. IAM credential report

      D. Key Management Service (KMS)

53. Where would you find the AWS Attestation of Compliance Documentation for PCI DSS?

      A. Amazon Macie

      B. AWS Identity and Access Management

      C. AWS Artifact

      D. AWS Support

54. Which of the following is TRUE when considering subnets in a VPC?

      A. By default, all subnets within a VPC can communicate with each other.

      B. Subnets within a VPC can only communicate with each other if an internet gateway is deployed.

      C. Subnets within a VPC can only communicate with each other if a NAT gateway is deployed.

      D. By default, subnets within a VPC cannot communicate with each other.

55. A customer is on the Enterprise Support plan, and they've reported a business-critical system down support case. What is the guaranteed response time from AWS Support?

      A. Less than 1 hour

      B. Less than 15 minutes

      C. Less than 24 hours

      D. Less than 5 minutes

56. Your sales operations group would like to perform monthly analyses on large amounts of sales activity. They want to be able to rank the performance of different territories, product categories, and sales channels. They will use visualization tools to generate graphical representations of the data. Which AWS service will provide the best solution for storing the sales data?

      A. Amazon Aurora

      B. Amazon Redshift

      C. Amazon DynamoDB

D. Amazon ElastiCache

57. An on-premises application requires a consistent, high-speed connection to the AWS Cloud environment that is better than an internet-based connection. Which AWS service can provide this connection?

    A. VPC peering

    B. STS

    C. AWS VPN

    D. Direct Connect

58. A company is migrating its workloads to AWS. Which tool will help the company estimate their potential cloud bill and calculate their overall total cost of ownership (TCO) based on their current workloads?

    A. The company can use the AWS Pricing Calculator.

    B. The company can open an account and billing support case with AWS Support to get help with estimating the TCO.

    C. The company can use the Cost Explorer to visualize its estimated TCO.

    D. The company can research the published prices of the AWS services and manually calculate the estimate.

59. What is a geographical area of the world that is a collection of logically grouped data centers?

    A. Region

    B. Availability Zone (AZ)

    C. Edge location

    D. Data center

60. Under the shared responsibility model for EC2, who is responsible for patching the guest operating system?

    A. AWS is responsible for patching the guest operating system.

    B. The responsibility for patching the guest operating system is shared between the customer and AWS.

    C. The responsibility to patch the guest operating system is not part of the AWS shared responsibility model.

    D. The customer is responsible for patching the guest operating system.

61. The AWS Cloud spans multiple Regions, Availability Zones (AZs), edge locations, and more. How would you best describe an Availability Zone?

    A. Multiple data centers isolated from each other in an AWS Region

    B. A separate geographic area

    C. A site that CloudFront uses to cache copies of content for faster delivery to users at any location

    D. One or more discrete data centers with redundant power, networking, and connectivity in an AWS Region

62. Your company would like to begin using Auto Scaling to add servers when CPU utilization reaches a certain threshold (e.g., 70%). Which service can you use to trigger actions when CPU utilization crosses the threshold?

    A. CloudWatch Alarms

    B. Simple Notification Service

    C. EC2 logs

    D. Elastic Load Balancing

63. A customer has an on-premises 5-gigabyte Oracle database that needs to be migrated to AWS and converted to Aurora. The customer requires minimal downtime to the database. Which service is the best option for migration and conversion?

    A. Direct Connect

    B. DataSync

    C. Database Migration Service

    D. Snowmobile

64. When you upload an object to S3 storage, where will AWS keep it?

    A. In AWS' central global storage site in the us-east-1 Region

    B. In multiple Availability Zones within the Region you select

    C. In a single, central location within the Region you select

    D. In multiple Regions across the globe

65. AWS purchases computing resources in large quantities at lower costs and then passes volume discounts on to their customers. Which benefit of cloud computing does this demonstrate?

    A. Deploy applications in multiple Regions around the world.

    B. Eliminate guessing about your infrastructure capacity needs.

    C. Lower pay-as-you-go prices due to massive economies of scale.

    D. Pay only when you use computing resources.

# Answer Keys

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|---|---|---|---|---|---|---|---|---|---|
| 1 | D | 16 | A | 31 | A | 46 | D | 61 | D |
| 2 | B | 17 | B | 32 | A | 47 | D | 62 | A |
| 3 | A,C | 18 | A,D,E | 33 | B | 48 | F | 63 | C |
| 4 | C | 19 | D | 34 | A | 49 | C | 64 | B |
| 5 | B | 20 | A | 35 | B | 50 | A,D | 65 | C |
| 6 | A | 21 | B,C,D | 36 | C,D | 51 | D | | |
| 7 | A | 22 | D | 37 | B | 52 | B | | |
| 8 | B,E | 23 | C | 38 | C | 53 | C | | |
| 9 | D | 24 | C | 39 | D | 54 | A | | |
| 10 | D | 25 | D | 40 | A,D | 55 | B | | |
| 11 | C | 26 | D | 41 | A | 56 | B | | |
| 12 | D | 27 | A | 42 | A,C,D | 57 | D | | |
| 13 | D | 28 | A | 43 | A | 58 | A | | |
| 14 | B | 29 | A | 44 | C | 59 | A | | |
| 15 | C | 30 | A | 45 | A | 60 | D | | |