

AWS Certified Cloud Practitioner (CPF) Practice Questions – Set 13

1. 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 Optimizations
 - C. AWS Inspector
 - D. AWS CloudWatch
2. 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. One or more discrete data centers with redundant power, networking, and connectivity in an AWS Region
 - C. A separate geographic area
 - D. A site that CloudFront uses to cache copies of content for faster delivery to users at any location
3. 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. Deploy the application to multiple Regions.
 - B. Deploy the application to multiple subnets.
 - C. Place a load balancer in front of the application.
 - D. Deploy the application to multiple VPCs.
4. 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. Elasticity
 - B. Horizontal scaling
 - C. Durability
 - D. Vertical scaling
5. 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?(Select three)
 - A. Ability to focus on building the application instead of managing servers
 - B. Ability to pay-as-you-go without upfront contracts or long-term commitments

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- C. Automatic Multi-AZ deployment of databases to enhance availability
 - D. By default, AWS provides automatic distribution of applications across Regions for higher availability
 - E. Ability to grow and shrink computing capacity based on demand
6. 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. Security
 - B. Loose coupling
 - C. High Availability
 - D. Elasticity
7. A company is considering a serverless architecture and wants to build and run applications without having to manage infrastructure. Which AWS services should the company consider using when building applications?
- A. S3
 - B. Fargate
 - C. EC2
 - D. DynamoDB
 - E. Lambda
8. 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. EC2 logs
 - B. Elastic Load Balancing
 - C. CloudWatch Alarms
 - D. Simple Notification Service
9. 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. Pay only when you use computing resources.
 - D. Lower pay-as-you-go prices due to massive economies of scale.
10. What is a geographical area of the world that is a collection of logically grouped data centers?

- A. Availability Zone (AZ)
 - B. Data center
 - C. Region
 - D. Edge location
11. When configuring an Application Load Balancer (ALB), what step should you take to ensure a highly available architecture?
- A. Configure the load balancer to distribute incoming traffic across your registered targets in multiple Availability Zones
 - B. Set up multiple edge locations for your load balancer
 - C. Set up more than 1 ALB
 - D. Set up cross-region Load Balancing
12. 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. Durability
 - C. Agility
 - D. High availability
13. 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. Write a script to stop instances when demand is low.
 - B. Use Reserved Instances instead of On-Demand Instances.
 - C. Use an Auto Scaling group to scale out and in based on demand.
 - D. Use an elastic load balancer to scale out and in based on demand.
14. 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. Highly available
 - C. Secure
 - D. Elastic

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15. 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. AWS VPN
 - B. VPC peering
 - C. Direct Connect
 - D. STS
16. 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. AWS Outposts
 - B. Region
 - C. Edge location
 - D. Availability Zone
17. A company is developing a new web application that has high availability requirements. How can the company increase availability when deploying the application?
- A. CloudFront
 - B. Utilize a multi-Region deployment when deploying the application.
 - C. Deploy the application to span across multiple Availability Zones (AZs).
 - D. Deploy the application to the Region that is closest to most of its users.
 - E. S3 Transfer Acceleration
18. 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?
- A. Do not share access keys.
 - B. Allow users to pick their own passwords that are easy to remember.
 - C. Create individual users instead of using root.
 - D. Enable MFA for privileged users
 - E. Grant users full access to just the services they need.
19. Under the AWS shared responsibility model, who is responsible for the configuration of infrastructure devices?
- A. AWS is responsible for the configuration of infrastructure devices.

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- 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. The responsibility to configure infrastructure devices is shared between the customer and AWS.
20. Under the shared responsibility model for EC2, who is responsible for patching the guest operating system?
- A. The customer is responsible for patching the guest operating system.
 - B. AWS is responsible for patching the guest operating system.
 - C. The responsibility to patch the guest operating system is not part of the AWS shared responsibility model.
 - D. The responsibility for patching the guest operating system is shared between the customer and AWS.
21. 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 IAM
 - C. AWS Route 53
 - D. AWS VPC
22. 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 policy with Amazon S3 access
 - C. Use an IAM user
 - D. Use an IAM policy with administrator access
23. 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. Redshift
 - B. QuickSight

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- C. IAM credential report
 - D. AWS Artifact
24. A customer has noticed several of their AWS accounts were hacked and used to mine bitcoin. Who should the customer report the issue to?
- A. Developer Forums
 - B. AWS Trust & Safety team
 - C. AWS Inspector
 - D. AWS Support
25. 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. GuardDuty IAM findings
 - B. Shield
 - C. IAM user policy
 - D. Service control policies (SCPs)
26. 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. CloudFormation
 - B. CloudTrail
 - C. Cost budgets in AWS Budgets
 - D. CloudWatch
27. Which service allows users to record software configuration changes within servers running on-premises over time?
- A. Inspector
 - B. GuardDuty
 - C. Trusted Advisor
 - D. Config
28. How would you create and manage access keys for users that need to access AWS services from the AWS Command Line Interface (CLI)?
- A. Identity and Access Management (IAM)
 - B. Software development kit (SDK)
 - C. Control Tower
 - D. Systems Manager

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29. 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 permission to only 1 user to perform a task
 - B. Granting the minimum requirement to perform a task
 - C. Granting permissions at the group level only
 - D. Granting permissions to only users that have MFA enabled on their account
30. Which of the following is an AWS Well-Architected Framework design principle related to operational excellence?
- A. Use serverless architectures first.
 - B. Assign only the least privileges required.
 - C. Deploy smaller, reversible changes.
 - D. Scale horizontally for resilience.
31. 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. Service control policies (SCPs)
 - B. IAM service role
 - C. IAM role
 - D. IAM policy
32. 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. Macie
 - B. Inspector
 - C. Athena
 - D. GuardDuty
33. Which of the following is used to secure Amazon S3 buckets?
- A. API key
 - B. Access keys
 - C. Bucket access policy
 - D. Security group
34. 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. WAF
- C. S3 Transfer Acceleration
- D. CloudFront

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

- A. Data center
- B. Edge location
- C. Availability Zone
- D. Region

36. 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 EC2 instances from your EC2 fleet based on conditions you specify
- C. By increasing or decreasing the size of your storage based on conditions you specify
- D. By adding or removing storage based on conditions you specify

37. 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. VPN tunnel using AWS VPN
- B. Direct Connect
- C. VPC peering
- D. Public internet

38. In order to maintain HIPAA (Health Insurance Portability and Accountability Act) compliance, insurance providers and health plans must archive past patients' personal health information. The data will be accessed, at most, once or twice a year when requested by the Office for Civil Rights to ensure compliance. Which AWS service will provide the most cost-effective solution for storage and retrieval of these files?

- A. ElastiCache
- B. DynamoDB

- C. S3 Glacier Deep Archive
 - D. Artifact
39. Which of the following is TRUE when considering subnets in a VPC?
- A. By default, subnets within a VPC cannot communicate with each other.
 - B. By default, all subnets within a VPC can communicate with each other.
 - C. Subnets within a VPC can only communicate with each other if an internet gateway is deployed.
 - D. Subnets within a VPC can only communicate with each other if a NAT gateway is deployed.
40. 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. Polly
 - B. Rekognition
 - C. Translate
 - D. SageMaker
41. 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. DataSync
 - B. Snowball
 - C. Snowcone
 - D. Snowmobile
42. Where would you find the AWS Attestation of Compliance Documentation for PCI DSS?
- A. AWS Identity and Access Management
 - B. AWS Support
 - C. Amazon Macie
 - D. AWS Artifact
43. You have just created a new bucket and uploaded a file into it. Will this be automatically viewable by anyone on the internet?
- A. No - by default, buckets and their contents are private
 - B. Only if you have a NAT gateway
 - C. Yes - by default, buckets and their contents are public
 - D. Only if you have an internet gateway

44. Which of the following are classified as migration services?
- A. AWS Application Discovery Service
 - B. AWS Config
 - C. AWS Snowball
 - D. AWS OpsWorks
45. 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. Lex
 - B. Translate
 - C. SageMaker
 - D. Polly
46. Which of the following allows you to make entire buckets (like 1 hosting an S3 website) public?
- A. Bucket policies
 - B. Access control lists
 - C. Bucket control lists
 - D. Access policies
47. 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
48. A solutions architect wants to design an application architecture that reduces the risk of cascading failures between components. Which design principles should be considered when planning the cloud architecture?
- A. Build monolithic systems
 - B. Design the architecture to reduce inter-dependencies
 - C. Design the architecture to leverage inter-dependencies
 - D. Utilize loosely coupled components
 - E. Utilize tightly coupled components

49. AWS VPC is a component of which of the following overall service categories?
- A. Compute
 - B. Migration Services
 - C. Storage
 - D. Networking and Content Delivery
 - E. Database
 - F. Management Tools
50. When you upload an object to S3 storage, where will AWS keep it?
- A. In multiple Availability Zones within the Region you select
 - B. In AWS' central global storage site in the `us-east-1` Region
 - C. In a single, central location within the Region you select
 - D. In multiple Regions across the globe
51. Which of the following services helps you deliver content to your customers faster?
- A. S3
 - B. Amazon Elastic File System
 - C. CloudFront
 - D. Elastic Block Store
52. 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 Systems Manager
 - C. Route 53
 - D. AWS Auto Scaling
53. By default, what can a private subnet communicate with?
- A. Private subnets in a different VPC
 - B. Public subnets in a different VPC
 - C. Public subnets in the same VPC
 - D. Other private subnets in the same VPC
 - E. The internet
54. 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?
- A. EC2
 - B. VPC

- C. S3
 - D. DynamoDb
55. You need to stream data in real time for a dashboard application. Which AWS service would you use?
- A. AWS Kinesis
 - B. AWS CloudTrail
 - C. AWS CloudWatch
 - D. Amazon Redshift
56. A company wants to ensure all AWS accounts in their environment conform to company-wide policies. Which services can help?
- A. Systems Manager
 - B. Trusted Advisor
 - C. Control Tower
 - D. Organizations
57. How can a customer with the Enterprise Support plan get help with billing and account questions?
- A. Technical Account Manager (TAM)
 - B. Use the AWS Support API to programmatically open a case with AWS Support.
 - C. AWS Online Tech Talks
 - D. AWS Community Forums
 - E. Contact the Support Concierge team.
58. 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. < 1 hour response time support when your production system goes down.
 - D. < 15 minutes response time support if your business-critical system goes down.
59. 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?

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- A. Use tags
 - B. Use Systems Manager
 - C. Talk with a Technical Account Manager (TAM)
 - D. Open a case with AWS Support
60. 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?
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 - D. Open a case with AWS Support
61. A customer wants access to the full set of Trusted Advisor checks. What's the minimum support plan they need to have access to?
- A. Business Support
 - B. Developer Support
 - C. Enterprise Support
 - D. Basic Support
62. 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?
- A. Data center cooling, power, and space requirements
 - B. Software license costs
 - C. Software development
 - D. Help desk support costs
 - E. Hardware and infrastructure
63. How can a customer on the Developer Support plan open a system impaired support case?
- A. Contact the Technical Account Manager (TAM) via chat.
 - B. Open a technical support case via chat.
 - C. Contact the Support Concierge team via phone.
 - D. Open a technical support case via email.
64. 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?

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- A. The company can use the AWS Pricing Calculator.
 - B. The company can use the Cost Explorer to visualize its estimated TCO.
 - C. The company can research the published prices of the AWS services and manually calculate the estimate.
 - D. The company can open an account and billing support case with AWS Support to get help with estimating the TCO
65. 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. The response time for a business-critical system down case is less than 15 minutes.
 - D. Less than 5 minutes
 - E. Less than 24 hours

Answer Keys

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