Cloud Practitioner - Exam Prep B

1. Which of the following services would be considered services to leverage in a serverless architecture? (select three)

    A   Amazon EC2

    B   AWS Lambda

    C   Amazon SQS

    D   Amazon Elasticache

    E   Amazon DynamoDB

2. Which of the following is an economic benefit of utilizing the cloud?

    A   No up front capitalized expenditures (capex)

    B   No operational expenditures (opex)

    C   Cost is unrelated to usage

    D   Increased TCO

3. You will be testing the migration of an on-premise web server to the cloud. You plan to have this instance up for a few weeks while you verify its performance. Which EC2 pricing model should you use?

    A   Reserved Instance

    B   Dedicated Instance

    C   On-Demand Instance

    D   Spot Instance

4. Your company is launching a new EC2 web server that will be running consistently for at least a year. The company wants to find maximum cost savings for this instance. What pricing model should they choose?

    A   Spot Instance

    B   Reserved Instance - 1 year - No Upfront

    C   Reserved Instance - 1 year - All Upfront

    D   Dedicated Instance

5. Your organization is looking to develop a single tool to manage deployments both on-premise and in the cloud. Which of the following AWS services could be leveraged for this?

   A   AWS OpsWorks

   B   Amazon S3

   C   AWS CodeBuild

   D   AWS CodePipeline

6. Which EC2 pricing model provides the potential for the most cost savings if your workload is flexible?

   A   Spot Instance

   B   Reserved Instance

   C   On-Demand Instance

   D   Dedicated Host

7. Which services can be leveraged to support a hybrid cloud approach? (select two)

   A   AWS Lightsail

   B   AWS Lambda

   C   AWS Cloud9

   D   Amazon Route 53

   E   AWS Storage Gateway

8. Which of the following is an economic benefit of moving into the cloud?

   A   No up front capitalized expenditures (capex)

   B   No variable costs

   C   No operational expenditures (opex)

   D   Increased capex and reduced opex

9. Which AWS service enables you to implement "infrastructure as code" for your AWS environments?

   A   AWS EC2

   B   AWS RDS

   C   AWS CodeCommit

   D   AWS CloudFormation

10. Which of the following are pillars of the AWS Well-Architected Framework? (select three)

   A   Cost Optimization

   B   Infrastructure as Code

   C   Operational Excellence

   D   Loose Coupling

   E   Performance Efficiency

11. Which of the following are categories of recommendations provided by AWS Trusted Advisor? (choose three)

   A   Cost Optimization

   B   Fault Tolerance

   C   Performance

   D   Least Privilege Access

   E   High Availability

12. Which element of AWS global infrastructure enables caching of assets in a global content delivery network to reduce latency for end users?

   A   Local Zone

   B   Availability Zone

   C   Edge location

   D   Region

13. Your organization has launched multiple EC2 instances into a VPC. You need a secure way to access these servers over the public Internet. What would be one approach that you could take that would align with security best practices?

    A   Use AWS Direct Connect

    B   Open up the needed ports to all IP addresses

    C   Remove all restrictions from the Network ACL's

    D   Setup AWS VPN for the VPC

14. Your organization is moving a web application that leverages MySQL into the cloud. Which approach would enable you to minimize the management tasks for this database without modifying the database interactions?

    A   Utilize the AWS Database Migration Service

    B   Utilize DynamoDB

    C   Utilize MariaDB on Amazon RDS

    D   Utilize Amazon Aurora on Amazon RDS

15. Which resource provided by AWS provides a collection of best practices for building applications and solutions in the cloud across five pillars?

    A   AWS Marketplace

    B   AWS Well-Architected Framework

    C   AWS SaaS Factory

    D   AWS Forums

16. Which of the following are economic benefits of switching to the cloud from a traditional data center? (choose three)

    A   Reduced Total Cost of Ownership (TCO)

    B   Lower variable Operational Expenditures (opex)

    C   Eliminating Operational Expenditures (opex)

    D   Increased Operational Expenditures (opex)

    E   No need for up front Capitalized Expenditures (capex)

17. Your organization needs to store roughly 2 TB of data for two years to meet compliance requirements. This data will rarely need to be accessed, but in the event of an audit, it will need to be recovered within a few days. What would be the most cost effective solution for this use case?

    A   Amazon S3 Infrequent Access

    B   Amazon EFS

    C   Amazon EBS

    D   Amazon S3 Glacier

18. What feature of AWS Organizations enables you to receive a single bill for all member accounts?

    A   Cost Explorer

    B   Cost and Usage Report

    C   Reserved Billing

    D   Consolidated Billing

19. Which disaster recovery approach would result in the least downtime during a disaster recovery event?

    A   Backup and Restore

    B   Pilot Light

    C   Warm Standby

    D   Multi-site

20. What AWS service can be leveraged to fully automate your build, test, and deploy pipeline for your custom software projects?

    A   AWS CodeArtifact

    B   AWS CodeCommit

    C   AWS X-Ray

    D   AWS CodePipeline

21. Which AWS service enables you to view, analyze, and alert on logs, metrics, and events from your infrastructure deployed on AWS?

    A   Amazon Logs

    B   Amazon Elastic Block Store (EBS)

    C   Amazon CloudWatch

    D   AWS Identity and Access Management (IAM)

22. Your company utilizes resource tags to properly attribute expenses to specific applications and departments. This data then allows your organization to analyze all AWS spending by these categories. Which pillar of the AWS Well-Architected Framework recommends this approach?

    A   Cost Optimization

    B   Security

    C   Reliability

    D   Operational Efficiency

23. What features of Virtual Private Clouds (VPC's) enable you to limit access to your network? (select two)

    A   Network Load Balancers

    B   AWS CloudFormation

    C   Security Groups

    D   Network Access Control Lists (ACL's)

    E   Amazon EBS Volumes

24. Which service provides a global content delivery network (CDN) that leverages the edge locations in the AWS Global Infrastructure to enable reduced latency when sending content to end users?

    A   AWS Content Delivery

    B   Amazon CloudFormation

    C   Amazon Content Network

    D   Amazon CloudFront

25. Which tool would enable you to check if you are following AWS best practices for cost optimization on your current workloads?

    A AWS Trusted Advisor

    B AWS Pricing Calculator or Simple Monthly Calculator

    C Cost and Usage Reports (CUR)

    D AWS Cost Explorer

26. Your organization is two months into a cloud transition, and a majority of systems have been migrated. Based on your current workload, you want to visualize current spend by AWS service as well as predicting future costs for this workload. What tool should you leverage?

    A TCO Calculator

    B AWS Cost Explorer

    C AWS Pricing Calculator

    D Cost and Usage Reports (CUR)

27. Which of the following is an economic benefit of leveraging the cloud?

    A Elimination of variable operational expenditures (opex)

    B Variable operational expenditures (opex) are tied to usage

    C Increased up front capitalized expenditures (capex)

    D Variable operational expenditures (opex) costs are unrelated to usage

28. Which managed AWS service enables you to leverage your own encryption keys for your data with AWS services?

    A AWS GuardDuty

    B AWS Identity and Access Management (IAM)

    C AWS Key Management Service (KMS)

    D Amazon Macie

29. Where can organizations find pre-configured software from independent software vendors to run in their AWS environments?

    A   AWS Marketplace

    B   AWS CloudFormation

    C   Amazon CloudFront

    D   AWS SaaS Factory

30. Which of the following services is considered global (and not region-specific)?

    A   AWS Direct Connect

    B   Amazon Route 53

    C   AWS CloudFormation

    D   Amazon S3

31. Your organization has adopted a serverless approach for new applications. By doing this, you have decreased the amount you need to build and maintain. What pillar of the Well-Architected Framework recommends this approach?

    A   Fault Tolerance

    B   Performance Efficiency

    C   Reliability

    D   Cost Optimization

32. Which billing tool provides detailed usage and costs data in an Amazon S3 bucket?

    A   S3 Billing Report (SBR)

    B   Cost and Usage Reports (CUR)

    C   AWS Trusted Advisor

    D   AWS Cost Explorer

33. Within the Shared Responsibility Model, what area would be the responsibility of the customer? (select two)

   A   Providing least-privilege access to AWS resources

   B   Data center employee training

   C   Client-side data encryption

   D   Physical data center access controls

   E   Patching data center network routers

34. With the AWS Shared Responsibility Model, what would be the responsibility of AWS? (choose two)

   A   Managing network connectivity for data centers

   B   Implementing server-side data encryption

   C   Training data center employees

   D   Patching the OS of EC2 instances

   E   Controlling application network access

35. Which of the following is a best practice to follow when creating a new AWS account?

   A   Copy the root user access keys and always use those with the AWS CLI

   B   Verify that multi-factor authentication is disabled for the account

   C   Create a new IAM user that you will use instead of the root user

   D   Make sure that all senior team members have access to the root credentials

36. You have multiple web servers deployed across multiple availability zones. What service would provide the ability to route incoming requests between these servers?

   A   AWS Elastic Beanstalk

   B   Amazon Kinesis

   C   Amazon CloudFormation

   D   Elastic Load Balancing

37. During an audit, you learn that you will need to provide documentation for SOC 1 compliance for an application deployed on AWS. Where will you go to get the AWS compliance report for this certification?

    A   Your AWS Technical Account Manager (TAM)

    B   AWS Marketplace

    C   AWS Compliance Hub

    D   AWS Artifact

38. After research, you determine that for a specific cloud workload it is cheaper to run it on AWS than in your own data center when factoring in hardware costs, setup labor, and maintenance. What cloud computing benefit is best illustrated with this use case?

    A   Benefit from massive economies of scale

    B   Go global in minutes

    C   Increase speed and agility

    D   Stop guessing capacity

39. Which of the following services could assist in migrating your data from your on-premise data center into AWS?

    A   Amazon Relational Database Service (RDS)

    B   Amazon Elastic Block Store (EBS)

    C   AWS Database Migration Service (DMS)

    D   AWS Migration Gateway

40. You have enabled AWS CloudTrail to keep an audit log of all actions taken on your company's AWS accounts. Which pillar of the AWS Well-Architected framework is followed with this implementation?

    A   Reliability

    B   Operational Excellence

    C   Security

    D   Compliance

41. You have chosen to break up a large application into smaller components that utilize SQS queues between each step. Which architectural principle is illustrated by this approach?

    A   Least privilege access

    B   Elastic computing

    C   Loose coupling

    D   Tight coupling

42. Where would you go to access resources to help deploy popular technologies into AWS following best practices including step-by-step deployment instructions?

    A   Amazon S3

    B   Github

    C   AWS CloudFormation

    D   AWS Quick Starts

43. Which element of the AWS Global Infrastructure includes multiple availability zones, enabling you to create fault tolerant applications in the cloud that span multiple availability zones?

    A   Regional Edge Caches

    B   Region

    C   Outposts

    D   Edge Location

44. Which program could you leverage to find trusted third-party consultants that can assist with your AWS workloads?

    A   AWS Marketplace

    B   AWS Partner Network Consulting Partners

    C   AWS Partner Network Technology Partners

    D   AWS Directory Service

45. For auditing purposes your organization requires that all actions performed on AWS infrastructure is logged for at least one year. What AWS service could you use to implement this auditing requirement?

  A   AWS CloudTrail

  B   AWS CloudFormation

  C   Amazon CloudWatch

  D   Amazon Macie

46. Which of the following are features of Amazon S3? (select three)

  A   Static website hosting

  B   Ability to be mounted as an NFS filesystem

  C   Block storage that can be attached to Amazon EC2 instances

  D   Multiple storage classes to support different access needs

  E   Lifecycle rules to transition objects between storage classes

47. What free AWS service enables you to configure specific policies dictating what actions a user, group, or role can perform within your account?

  A   Amazon Macie

  B   AWS Identity and Access Management (IAM)

  C   AWS Security Hub

  D   AWS GuardDuty

48. Within the Shared Responsibility Model, what responsibility is shared by both the customer and AWS?

  A   Decommissioning Data Center Storage Hardware

  B   Patch Management

  C   Networking Traffic Protection

  D   Client-side Data Encryption

49. Which of the following could improve the security of your organization's IAM user accounts?

   A Setup AWS CloudTrail for your account

   B Setup the AWS Web Application Firewall (WAF)

   C Setup a password policy

   D Disable multi-factor authentication for each account

50. Your organization is currently leveraging MySQL on Amazon RDS for a web application. What AWS service could enable you to cache common queries to reduce the load on the MySQL server?

   A Amazon CloudFront

   B Security Groups

   C Amazon Elasticache

   D Amazon Direct Connect

51. Which factors should be considered when doing a TCO comparison analysis between a traditional data center and the cloud? (select three)

   A Custom software development

   B Cost of servers

   C Cost of data storage

   D Project management

   E Utility costs for data center

52. Your architecture team requires auditing of all resource configuration changes in your AWS account. What AWS service could you leverage to meet this requirement?

   A Amazon Macie

   B AWS Config

   C Amazon S3

   D AWS GuardDuty

53. Your company is looking to implement a new web application that will be used by millions of your customers. You are concerned with the scalability of the company's current relational database for this application, so you are looking for a managed NoSQL database for this project. Which AWS services provides this capability?

    A   Amazon RDS with Microsoft SQL Server

    B   Amazon DynamoDB

    C   Amazon Aurora

    D   Amazon Redshift

54. Which AWS service provides a managed data warehouse that can operate at a petabyte scale?

    A   AWS Lake Formation

    B   Amazon DynamoDB

    C   Amazon RDS

    D   Amazon Redshift

55. Which managed AWS service provides a safeguard against Distributed Denial of Service (DDoS) attacks?

    A   AWS Config

    B   AWS GuardDuty

    C   AWS Shield

    D   Amazon Macie

56. Which AWS service provides block storage for use with Amazon EC2 instances?

    A   Amazon Elastic Block Store (EBS)

    B   Amazon S3

    C   Amazon Elastic File System (EFS)

    D   AWS Storage Gateway

57. Which service of AWS enables you to take advantage of volume discounts and usage tier discounts across multiple AWS accounts that your company manages?

    A   AWS Cost Explorer

    B   Amazon CloudWatch

    C   AWS CloudFormation

    D   AWS Organizations

58. What is the minimum AWS support plan that provides a dedicated Technical Account Manager (TAM)?

    A   Enterprise

    B   Business

    C   Basic

    D   Developer

59. Your company wants to isolate specific applications to their own AWS account, however, they want to have a single bill that provides a clear breakdown of cost by account. What service would you recommend they use to meet these requirements?

    A   AWS CloudFormation

    B   AWS Lake Formation

    C   AWS Organizations

    D   Amazon CloudWatch

60. Given regulations in some countries that your company operates in, there is a policy to ensure that your application runs on physically isolated virtual machines. What EC2 pricing model should you choose to support this requirement?

    A   On-Demand Instance

    B   Spot Instance

    C   Dedicated Host

    D   Reserved Instance

61. Your organization has refactored an application that was migrated from your data center to the cloud. The application can now automatically allocate new resources to meet user demand. What benefit of the cloud is illustrated in this scenario?

    A   Fault Tolerance

    B   Elasticity

    C   Agility

    D   High Availability

62. Which AWS service enables you to create a logically isolated virtual network that you can define and configure?

    A   Amazon Virtual Private Cloud (VPC)

    B   AWS Elastic Beanstalk

    C   Amazon CloudWatch

    D   Amazon Elastic Network

63. Recently your organization launched a new database using Amazon RDS. You chose to deploy the database across multiple availability zones to ensure the database could still function even if an availability zone went down. Which architectural principle does this illustrate?

    A   Loose coupling

    B   Tight coupling

    C   Cost optimization

    D   High availability

64. Which of the following are benefits of Amazon RDS? (select three)

    A   Provides access to the operating system through SSH

    B   Enables you to easily install customized versions of the database engine

    C   Automatically patches database engine based on configured settings

    D   Can enable high-availability by leveraging multiple availability zones

    E   Provides the ability to implement read replicas for most database engines

65. Your company wants to ensure that they have phone, chat, and email access to AWS support with a response within 1 hour when a production system is down. What is the minimum level of support that would meet this criteria?

A   Business

B   Enterprise

C   Basic

D   Developer