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AWS Certified Cloud Practitioner Exam

🕒 1 hour 30 minutes

★ 65
Questions

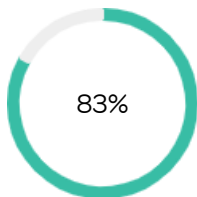
 1.38 Minutes per Question

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Congratulations!

You passed this challenge on this attempt.

Expectations Report Card

Domain 1: Cloud Concepts	88.24%
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Domain 3: Technology	85.71%
Domain 4: Billing and Pricing	100%

Exam Breakdown

Domain 1: Cloud Concepts

1. A video production company uploads large video files to S3 buckets using multipart upload. To which AWS Cloud best practice does this adhere?



A Implement Elasticity

B Decouple your components

C Think Parallel

D Design for Failure

Correct Answer: C

Why is this correct?

Multipart uploads use multi-threading to upload large files to S3 buckets in parallel (the parts of the file are uploaded in parallel). Reference: Architecting in the Cloud (http://aws001.s3.amazonaws.com/trailhead/TrailHead_ArchitectingInTheCloud.pdf).

2. A small company wants to deploy a new system in the AWS cloud but does not have anyone with the required AWS skill set to perform the deployment. Which AWS service can help with this?



A Trusted Advisor

B AWS CloudFormation

C AWS Partner Network (APN) Technology Partners

D AWS Partner Network (APN) Consulting Partners

Correct Answer: D

Why is this correct?

APN Consulting Partners are professional services firms that help customers of all types and sizes design, architect, build, migrate, and manage their workloads and applications on AWS, accelerating their journey to the cloud. APN Consulting Partners often implement Technology Partner solutions in addition to the professional services they offer. <https://aws.amazon.com/partners/> (<https://aws.amazon.com/partners/>)

3. Which AWS service can provide a Desktop as a Service (DaaS) solution?



A EC2

B AWS Systems Manager

C Amazon WorkSpaces

D Elastic Beanstalk

Correct Answer: C**Why is this correct?**

Amazon WorkSpaces is a managed, secure Desktop-as-a-Service (DaaS) solution. You can use Amazon WorkSpaces to provision either Windows or Linux desktops in just a few minutes and quickly scale to provide thousands of desktops to workers across the globe. <https://aws.amazon.com/workspaces/?workspaces-blogs.sort-by=item.additionalFields.createdDate&workspaces-blogs.sort-order=desc> (<https://aws.amazon.com/workspaces/?workspaces-blogs.sort-by=item.additionalFields.createdDate&workspaces-blogs.sort-order=desc>)

4. You have recently started using AWS and now need to launch a large number of instances in your VPC. You learn that this number exceeds the service limits for instances in a VPC. What can you do?



A Contact AWS and request a service limit increase.

B There is nothing that can be done. Redesign based on a smaller number of instances.

C Use Auto Scaling and the service limit can be exceeded.

D Upgrade your support plan to increase this service limit.

Correct Answer: A**Why is this correct?**

Use the Limits page in the Amazon EC2 console to request an increase in the limits for resources provided by Amazon EC2 or Amazon VPC on a per-Region basis.

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-resource-limits.html>
(<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-resource-limits.html>)

5. You are reviewing the AWS Shared Responsibility model to present an overview to management on what your company is responsible for in AWS. Which option is a customer responsibility?



A Networking

B Edge Locations


C Customer Data

D Availability Zones

Correct Answer: C**Why is this correct?**

Customers are responsible for the storage and securing of their own data. <https://aws.amazon.com/compliance/shared-responsibility-model/#:~:text=Security%20and%20Compliance%20is%20a%20shared%20responsibility%20between%20AWS%20and%20the%20customer.&text=The%20customer%20assumes%20responsibility%20and,AWS%20provided%20security%20group%20firewall> (<https://aws.amazon.com/compliance/shared-responsibility-model/#:~:text=Security%20and%20Compliance%20is%20a%20shared%20responsibility%20between%20AWS%20and%20the%20customer.&text=The%20customer%20assumes%20responsibility%20and,AWS%20provided%20security%20group%20firewall>)

model/#:~:text=Security%20and%20Compliance%20is%20a%20shared%20responsibility%20between%20AWS%20and%20the%20customer.&text=The%20customer%20assumes%20responsibility%20and,AWS%20provided%20security%20group%20firewall).


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

- A There is no need to patch guest operating systems.
- B The worry of long term cost is eliminated.
- C All encryption is handled by AWS.
- D The company can focus on its business rather than managing a data center.**

Correct Answer: D

Why is this correct?

The AWS Cloud consists of data centers. But those data centers are the sole responsibility of AWS. This frees the customer up to focus on their business.



7. You would like to set up a loosely coupled architecture. Which service would allow you to send and receive messages, but most importantly, store messages if they are not consumed immediately?  

- A AWS SES
- B AWS CloudSearch
- C AWS SQS**
- D AWS S3

Correct Answer: C

Why is this correct?

Amazon Simple Queue Service (SQS) is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. SQS eliminates the complexity and overhead associated with managing and operating message-oriented middleware and empowers developers to focus on differentiating work. Using SQS, you can send, store, and receive messages between software components at any volume, without losing messages or requiring other services to be available. <https://aws.amazon.com/sqs/> (<https://aws.amazon.com/sqs/>)

8. Your company would like to begin using auto-scaling to add servers when CPU utilization reaches a certain threshold (say 70%). Which service can you use to trigger actions when CPU utilization crosses the threshold?  

A EC2 Logs

B Simple Notification Service

C Elastic Load Balancers

D CloudWatch Alarms

Correct Answer: D

Why is this correct?

A CloudWatch alarm can be set up to monitor CPU utilization and trigger further action. Further action could be an Auto Scaling Group adding another EC2 instance and/or using SNS to notify team members of the occurrence.

INCORRECT

9. The CFO of a software company had requested an Executive Summary detailing the advantages of a potential move to the AWS Cloud. What can you say is an advantage of an RDS database over a traditional database?



A It is much easier to convert to a NoSQL database.

B AWS maintains the underlying OS and performs software patching on the database.

C It is 5 times faster than traditional databases.

D There is much greater access for DBAs.

Your Answer: C

Why is this incorrect?

This is not true as a general statement. Amazon Aurora is up to 5 times faster than MySQL RDS.

Correct Answer: B

Why is this correct?

Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale a relational database in the cloud. It provides cost-efficient and resizable capacity while automating time-consuming administration tasks such as hardware provisioning, database setup, patching, and backups. It frees you to focus on your applications so you can give them the fast performance, high availability, security, and the compatibility they need. <https://aws.amazon.com/rds/> (<https://aws.amazon.com/rds/>)

10. Which of the following is an AWS Global Service?



A VPC

B RDS

C EC2

D CloudFront

Correct Answer: D

Why is this correct?

Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment.

<https://aws.amazon.com/cloudfront/> (<https://aws.amazon.com/cloudfront/>)

11. You suspect that one of the AWS services your company is using has gone down. How can you check on the status of this service?



A AWS Organizations

B AWS Trusted Advisor

C Amazon Inspector

D AWS Personal Health Dashboard

Correct Answer: D

Why is this correct?

AWS Personal Health Dashboard provides alerts and remediation guidance when AWS is experiencing events that may impact you. While the Service Health Dashboard displays the general status of AWS services, Personal Health Dashboard gives you a personalized view into the performance and availability of the AWS services underlying your AWS resources.

The dashboard displays relevant and timely information to help you manage events in progress, and provides proactive notifications to help you plan for scheduled activities. With Personal Health Dashboard, alerts are triggered by changes in the health of AWS resources, giving you event visibility and guidance to help quickly diagnose and resolve issues.

<https://aws.amazon.com/premiumsupport/technology/personal-health-dashboard/>

(<https://aws.amazon.com/premiumsupport/technology/personal-health-dashboard/>)

12. 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 STS

B VPC Peering

C AWS VPN

D Direct Connect

Correct Answer: D**Why is this correct?**

AWS Direct Connect is a cloud service solution that makes it easy to establish a dedicated network connection from your premises to AWS. AWS Direct Connect lets you establish a dedicated network connection between your network and one of the AWS Direct Connect locations. <https://aws.amazon.com/directconnect/>
(<https://aws.amazon.com/directconnect/>)

13. A new web application is getting much more traffic than expected. You decide to add another EC2 instance to share the load. Which AWS principle does this represent?



A Durability

B Vertical Scaling

C Elasticity

D Horizontal Scaling

Correct Answer: D**Why is this correct?**

Horizontal Scaling is the act of changing the number of nodes in a computing system without changing the size of any individual node. So, with horizontal scaling, we would add instances.

14. What are the three cloud computing models?



A Platform as a Service (PaaS)

B Infrastructure as a Service (IaaS)

C Software as a Service (SaaS)

D Hardware as a Service (HaaS)

Correct Answer: A**Why is this correct?**

PaaS is one of the three cloud computing models.

<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/types-of-cloud-computing.html>
(<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/types-of-cloud-computing.html>)

Correct Answer: B**Why is this correct?**

IaaS is one of the three cloud computing models.

<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/types-of-cloud-computing.html>
(<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/types-of-cloud-computing.html>)

Correct Answer: C

Why is this correct?

SaaS is one of the three cloud computing models.

<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/types-of-cloud-computing.html>

(<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/types-of-cloud-computing.html>)

INCORRECT

15. Which of the following is an AWS Global Service?



A Amazon RDS

B EC2

C IAM

D VPC

Your Answer: D

Why is this incorrect?

VPC is a regional service.

Correct Answer: C

Why is this correct?

Identity and Access Management is a Global service.

16. Which is a core design principle for deploying resources in AWS?



A Use a tight coupling of your resources and applications.

B Plan ahead for hardware capacity.

C Deploy in Multiple Availability Zones.

D Estimate your S3 storage needs up front.

Correct Answer: C

Why is this correct?

Deploying in Multiple Availability zones will protect against downtime should an Availability Zone be lost.

17. During Disaster Recovery exercises, you need to re-route traffic from EC2 instances to instances in another region. With which service can you do this?



A Route 53

B AWS Auto Scaling

C VPC Peering

D CloudFront

Correct Answer: A

Why is this correct?

Route 53 can be used for Disaster Recovery by simply shifting traffic to the new region. Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service. It is designed to give developers and businesses an extremely reliable and cost-effective way to route end users to Internet applications by translating names like `www.example.com` (`http://www.example.com`) into the numeric IP addresses like `192.0.2.1` that computers use to connect to each other. Amazon Route 53 is fully compliant with IPv6 as well.

Domain 2: Security and Compliance

18. You are working with IAM and need to attach policies to users, groups, and roles. Which will you be attaching these policies to?



A Resources

B Entities

C Identities

D Principals

Correct Answer: C

Why is this correct?

Identities are the IAM resource objects that are used to identify and group. You can attach a policy to an IAM identity. These include users, groups, and roles.

INCORRECT

19. Developers in your company need to interact with AWS from the Command Line Interface. Which security item will you need to provide to the developers?



A Login ID

B Root password

C Security Token

D Access Key

Your Answer: C

Why is this incorrect?

Tokens are used for such things as requesting temporary access, but access keys are used with the CLI.

Correct Answer: D

Why is this correct?

When working with AWS from the CLI, you need to provide an access key and secret access key.

20. 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 Minimum Permissions

C IAM Principle

D Principle of Organizations

Correct Answer: A

Why is this correct?

When you create IAM policies, follow the standard security advice of granting the least privilege, or granting only the permissions required to perform a task. Determine what users (and roles) need to do, and then craft policies that allow them to perform only those tasks. <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#grant-least-privilege> (<https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#grant-least-privilege>)

21. Which AWS service can be used to detect and prevent Distributed Denial of Service attacks against services hosted on AWS?



A AWS Shield

B AWS Inspector

C AWS WAF

D Amazon GuardDuty

Correct Answer: A

Why is this correct?

AWS Shield is a managed Distributed Denial of Service (DDoS) protection service that safeguards applications running on AWS. AWS Shield provides always-on detection and automatic inline mitigations that minimize application downtime and latency, so there is no need to engage AWS Support to benefit from DDoS protection. There are two tiers of AWS Shield - Standard and Advanced. <https://aws.amazon.com/shield/> (<https://aws.amazon.com/shield/>)

22. A company is configuring IAM for its new AWS account. There are 5 departments with between 5 to 10 users in each department. How can they efficiently apply access permissions for each of these departments and simplify management of these users?



- A Create an IAM role defining the permissions needed. Create an IAM group and attach the policy to the group. Add the department's members to the group.
- B Create policies for each department that define the permissions needed. Create an IAM group for each department and attach the policy to each group. Add each department's members to their respective IAM group.**
- C Create a policies defining the permissions needed. Attach the policies to all users in each department.
- D Create an IAM group for each department. Add the department's members to the group.

Correct Answer: B

Why is this correct?

By creating an IAM group, all like users can be managed all at one time. Once the permissions are defined within the policy, it can be attached to the IAM group, allowing them access to the resources/services stated within the policy.

INCORRECT

23. You are storing sensitive employee information in an S3 Bucket. What can you use to give bucket access only to authorized personnel?



- A Network Access Control List**
- B Access Keys
- C Bucket Policy
- D Login and password

Your Answer: A

Why is this incorrect?

A network access control list (ACL) is an optional layer of security for your VPC that acts as a firewall for controlling traffic in and out of one or more subnets. You might set up network ACLs with rules similar to your security groups to add an additional layer of security to your VPC. <https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html> (<https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html>)

Correct Answer: C

Why is this correct?

S3 bucket policies specify what actions are allowed or denied for which principals on the bucket that the bucket policy is attached to (e.g., allow user Alice to PUT but not DELETE objects in the bucket).

<https://aws.amazon.com/blogs/security/iam-policies-and-bucket-policies-and-acls-oh-my-controlling-access-to-s3-resources/#:~:text=In%20other%20words%2C%20IAM%20policies,do%20in%20your%20AWS%20environment.&text=S3%20bucket%20policies%20specify%20what,DELETE%20objects%20in%20the%20bucket>

(<https://aws.amazon.com/blogs/security/iam-policies-and-bucket-policies-and-acls-oh-my-controlling-access-to-s3-resources/#:~:text=In%20other%20words%2C%20IAM%20policies,do%20in%20your%20AWS%20environment.&text=S3%20bucket%20policies%20specify%20what,DELETE%20objects%20in%20the%20bucket>)).

24. A software development team has requested IAM access to be able to work with AWS from the CLI. What will you provide these developers?



A Access Keys

B Security Token

C Username and password

D Root user credentials

Correct Answer: A

Why is this correct?

Access keys are long-term credentials for an IAM user or the AWS account root user. You can use access keys to sign programmatic requests to the AWS CLI or AWS API.

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html

(https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html)

25. You are concerned about access to your top-secret application by stolen passwords. What additional layer of security can you add for logging in to AWS Management Console, in addition to user passwords?



A AWS Voice Recognition

B AWS Transcribe

C Multi-Factor Authentication

D Secret Access Keys

Correct Answer: C

Why is this correct?

AWS Multi-Factor Authentication (MFA) is a simple best practice that adds an extra layer of protection on top of your user name and password. With MFA enabled, when a user signs in to an AWS Management Console, they will be prompted for their user name and password (the first factor—what they know), as well as for an authentication code from their AWS MFA device (the second factor—what they have). Taken together, these multiple factors provide increased security for your AWS account settings and resources. <https://aws.amazon.com/iam/features/mfa/> (<https://aws.amazon.com/iam/features/mfa/>)

26. Which policy will provide information on performing penetration testing on your EC2 instances?



A AWS Customer Agreement

B IAM Policy

C JSON Policy

D Customer Service Policy for Penetration Testing

Correct Answer: D

Why is this correct?

AWS customers are welcome to carry out security assessments or penetration tests against their AWS infrastructure without prior approval for Amazon EC2 instances, NAT Gateways, Elastic Load Balancers, and other 7 services. Reference: Penetration Testing (<https://aws.amazon.com/security/penetration-testing/>).

27. Which AWS service provides central governance and management across multiple AWS accounts?



A CloudFormation

B Identity and Access Management

C AWS Systems Manager

D AWS Organizations

Correct Answer: D

Why is this correct?

AWS Organizations helps you centrally govern your environment as you grow and scale your workloads on AWS. Whether you are a growing startup or a large enterprise, AWS Organizations helps you to centrally manage billing, control access, compliance, and security, and share resources across your AWS accounts.

Using AWS Organizations, you can automate account creation, create groups of accounts to reflect your business needs, and apply policies for these groups for governance. You can also simplify billing by setting up a single payment method for all of your AWS accounts. Through integrations with other AWS services, you can use Organizations to define central configurations and resource sharing across accounts in your organization. AWS Organizations is available to all AWS customers at no additional charge. <https://aws.amazon.com/organizations/> (<https://aws.amazon.com/organizations/>)

28. A company has a large number of S3 buckets and needs to manage and automate tasks on these buckets at one time. Which AWS feature can do this?



A IAM Groups



B Resource Groups

C Tagging

D IAM

Correct Answer: B**Why is this correct?**

You can use resource groups to organize your AWS resources. Resource groups make it easier to manage and automate tasks on large numbers of resources at one time. This guide shows you how to create and manage resource groups in AWS Resource Groups. <https://docs.aws.amazon.com/ARG/latest/userguide/welcome.html> (<https://docs.aws.amazon.com/ARG/latest/userguide/welcome.html>)

29. After configuring your VPC and all of the resources within it, you want to add an extra layer of security at the subnet level. Which will you use to add this security?  

A Security Group

B Network ACL



C Private IP Address

D IAM

Correct Answer: B**Why is this correct?**

A network access control list (ACL) is an optional layer of security for your VPC that acts as a firewall for controlling traffic in and out of one or more subnets. You might set up network ACLs with rules similar to your security groups to add an additional layer of security to your VPC. <https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html> (<https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html>)

INCORRECT

30. Your company has recently migrated large amounts of data to the AWS cloud in S3 buckets. But it is necessary to discover and protect the sensitive data in these buckets. Which AWS service can do that?  

A GuardDuty**B** Amazon Macie

C CloudTrail

D AWS Inspector

Your Answer: A



Why is this incorrect?

Amazon GuardDuty is a threat detection service that continuously monitors for malicious activity and unauthorized behavior to protect your AWS accounts and workloads. <https://aws.amazon.com/guardduty/> (<https://aws.amazon.com/guardduty/>)

Correct Answer: B**Why is this correct?**

Amazon Macie is a fully managed data security and data privacy service that uses machine learning and pattern matching to discover and protect your sensitive data in AWS. <https://aws.amazon.com/macie/> (<https://aws.amazon.com/macie/>)

INCORRECT

31. AWS uses the shared responsibility model. For security, which of the following are the responsibilities of AWS?  

A Configure Security Groups

B User password rules

C Physically securing compute resources

D Network patching

E Disk disposal

Your Answer: A**Why is this incorrect?**

This is the customer's responsibility, as customers are responsible for setting up their security groups.

Correct Answer: C**Why is this correct?**

AWS is in charge of physically securing compute resources, as it is part of the infrastructure that runs all of the services offered in the AWS Cloud.



Correct Answer: D**Why is this correct?**

Network patching is one of AWS's responsibilities, as it is connected to the infrastructure that AWS handles.

Correct Answer: E**Why is this correct?**

Disk disposal is one of AWS's responsibilities, as it is connected to the infrastructure, which AWS handles.

INCORRECT

32. In Identity and Access Management, which term applies to a person or application that uses the AWS account root user, an IAM user, or an IAM role to sign in and make requests to AWS?  

A Principal

B Resource

C Identity

D Entity

Your Answer: D

Why is this incorrect?

Entities are the IAM resource objects that AWS uses for authentication. These include IAM users, federated users, and assumed IAM roles.

Correct Answer: A

Why is this correct?

A Principal is a person or application that uses the AWS account root user, an IAM user, or an IAM role to sign in and make requests to AWS.

INCORRECT

33. In Identity and Access Management, which term refers to the IAM resource objects that AWS uses for authentication?



A Entities

B Resource

C Principal

D Identity

Your Answer: D

Why is this incorrect?

An Identity is an IAM resource object that is used to identify and group. You can attach a policy to an IAM identity. These include users, groups, and roles.

Correct Answer: A

Why is this correct?

IAM entities are the users (IAM users and federated users) and roles that are created and used for authentication.

<https://docs.aws.amazon.com/IAM/latest/UserGuide/intro-structure.html>

(<https://docs.aws.amazon.com/IAM/latest/UserGuide/intro-structure.html>)

34. A new application needs temporary access to resources in AWS. How can this best be achieved?



A Create an IAM Policy and attach it to the application.

B Create an IAM Role and have the application assume the role.

☐ C Store access key in an S3 Bucket and give the application access to the bucket.

☐ D Add the application to a group that has the appropriate permissions.

Correct Answer: B

Why is this correct?

Use an IAM role to manage temporary credentials for applications that run on an EC2 instance. When you use a role, you don't have to distribute long-term credentials (such as a user name and password or access keys) to an EC2 instance. Instead, the role supplies temporary permissions that applications can use when they make calls to other AWS resources. When you launch an EC2 instance, you specify an IAM role to associate with the instance. Applications that run on the instance can then use the role-supplied temporary credentials to sign API requests.

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_use_switch-role-ec2.html

(https://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_use_switch-role-ec2.html)

Domain 3: Technology



35. You have infrequently accessed data in S3 buckets that you want to transfer to Glacier. What can you use in AWS to do this?



☒ A S3 Lifecycle Policy

☐ B Bucket Policy

☐ C Cross Origin Resource Sharing (CORS)

☐ D Database Migration Service

Correct Answer: A

Why is this correct?

You can add rules in an S3 Lifecycle configuration to tell Amazon S3 to transition objects to another Amazon S3 storage class. For example:

When you know that objects are infrequently accessed, you might transition them to the S3 Standard-IA storage class.

You might want to archive objects that you don't need to access in real time to the S3 Glacier storage class.

<https://docs.aws.amazon.com/AmazonS3/latest/dev/lifecycle-transition-general-considerations.html>

(<https://docs.aws.amazon.com/AmazonS3/latest/dev/lifecycle-transition-general-considerations.html>)

INCORRECT

36. A new application rolled out by the development team is going to require load balancing of HTTP and HTTPS traffic. Which Load Balancer is best suited for this type of traffic?



☒ A Application Load Balancer

☐ B Network Load Balancer

☐ C Classic Load Balancer

☒ D HTTP Load Balancer

Your Answer: D

Why is this incorrect?

This is not a valid option. The Application Load Balancer is best suited for HTTP traffic.

Correct Answer: A

Why is this correct?

Application Load Balancer is best suited for load balancing of HTTP and HTTPS traffic and provides advanced request routing targeted at the delivery of modern application architectures, including microservices and containers.

<https://aws.amazon.com/elasticloadbalancing/> (<https://aws.amazon.com/elasticloadbalancing/>)

INCORRECT

37. A software company is looking for a tool to automate their deployments from end to end. Which AWS service can provide this continuous delivery functionality?



☐ A CodeCommit

☒ B CodeDeploy

☐ C CodePipeline

☐ D CodeBuild

Your Answer: B

Why is this incorrect?

AWS CodeDeploy is a fully managed deployment service that automates software deployments to a variety of compute services such as Amazon EC2, AWS Fargate, AWS Lambda, and your on-premises servers.

<https://aws.amazon.com/codedeploy/> (<https://aws.amazon.com/codedeploy/>)

Correct Answer: C

Why is this correct?

AWS CodePipeline is a fully managed continuous delivery service that helps you automate your release pipelines for fast and reliable application and infrastructure updates. CodePipeline automates the build, test, and deploy phases of your release process every time there is a code change, based on the release model you define. This enables you to rapidly and reliably deliver features and updates. <https://aws.amazon.com/codepipeline/>

(<https://aws.amazon.com/codepipeline/>)

38. A software development team has begun using the AWS Developer Tools Suite. Which service will enable creating, managing, and working with software development projects on AWS?



☐ A AWS CodeBuild

B AWS CodeCommit

C AWS CodeDeploy

D AWS CodeStar

Correct Answer: D

Why is this correct?

AWS CodeStar is a cloud-based service for creating, managing, and working with software development projects on AWS. You can quickly develop, build, and deploy applications on AWS with an AWS CodeStar project.

<https://docs.aws.amazon.com/codestar/latest/userguide/welcome.html>

(<https://docs.aws.amazon.com/codestar/latest/userguide/welcome.html>)

39. You have been tasked to create an S3 bucket for storing templates. A team member has forwarded you the templates, which are used for creating multiple different AWS resources such as S3 buckets, EC2 instances, and VPCs. Which service uses these templates to create AWS resources?



A OpsWorks

B Elastic Beanstalk

C CloudFormation

D EC2

Correct Answer: C

Why is this correct?

AWS CloudFormation simplifies provisioning and management on AWS. You can create templates for the service or application architectures you want and have AWS CloudFormation use those templates for quick and reliable provisioning of the services or applications (called “stacks”). You can also easily update or replicate the stacks as needed.

<https://aws.amazon.com/cloudformation/resources/templates/>

(<https://aws.amazon.com/cloudformation/resources/templates/>)

40. Your company is migrating its services to the AWS cloud. The DevOps team has heard about infrastructure as code, and wants to investigate this concept. Which AWS service would they investigate?



A AWS CloudFormation

B AWS Lambda

C CodeCommit

D Elastic Beanstalk

Correct Answer: A**Why is this correct?**

AWS CloudFormation is a service that helps you model and set up your Amazon Web Services resources so that you can spend less time managing those resources and more time focusing on your applications that run in AWS.

<https://aws.amazon.com/cloudformation/> (<https://aws.amazon.com/cloudformation/>)

41. What AWS service lets you provision a logically isolated section of the AWS Cloud?



A Amazon RDS

B Amazon Virtual Private Cloud

C Amazon Route 53

D Elastic Network Interface

Correct Answer: B**Why is this correct?**

Amazon Virtual Private Cloud (Amazon VPC) lets you provision a logically isolated section of the AWS Cloud. You have complete control over your virtual networking environment, including the selection of your own IP address range, creation of subnets, and configuration of route tables and network gateways. You can use both IPv4 and IPv6 in your VPC for secure and easy access to resources and applications. <https://aws.amazon.com/vpc/>

(<https://aws.amazon.com/vpc/>)

42. A company is migrating to the AWS Cloud. They need to set up DNS in the cloud. Which service is a highly available and scalable cloud DNS service in AWS?



A Amazon Macie

B Amazon VPC

C Route 53

D CloudFront

Correct Answer: C**Why is this correct?**

Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service. It is designed to give developers and businesses an extremely reliable and cost-effective way to route end users to Internet applications by translating names like www.example.com (<http://www.example.com>) into the numeric IP addresses like 192.0.2.1 that computers use to connect. Amazon Route 53 is fully compliant with IPv6 as well. <https://aws.amazon.com/route53/>

INCORRECT



43. A gaming company is using the AWS Developer Tool Suite to develop, build, and deploy their applications. Which AWS service can be used to trace user requests from end-to-end through the application?

A AWS X-Ray

B CloudWatch

C AWS Inspector

D CloudTrail

Your Answer: D

Why is this incorrect?

AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With CloudTrail, you can log, continuously monitor, and retain account activity related to actions across your AWS infrastructure. CloudTrail provides event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command line tools, and other AWS services.

<https://aws.amazon.com/cloudtrail/> (<https://aws.amazon.com/cloudtrail/>)

Correct Answer: A

Why is this correct?

AWS X-Ray helps developers analyze and debug production, distributed applications, such as those built using a microservices architecture. With X-Ray, you can understand how your application and its underlying services are performing to identify and troubleshoot the root cause of performance issues and errors. X-Ray provides an end-to-end view of requests as they travel through your application, and shows a map of your application's underlying components.

<https://aws.amazon.com/xray/> (<https://aws.amazon.com/xray/>)

44. You are about to migrate a MySQL database to the AWS Cloud. Which AWS service can help with this?



A AWS VPN

B AWS Database Migration Service

C AWS SnowBall

D AWS Direct Connect

Correct Answer: B

Why is this correct?

AWS Database Migration Service helps you migrate databases to AWS quickly and securely. The source database remains fully operational during the migration, minimizing downtime to applications that rely on the database. The AWS Database Migration Service can migrate your data both to and from most of the widely used commercial and open-source databases. <https://aws.amazon.com/dms/> (<https://aws.amazon.com/dms/>)

45. You need to set up a data warehouse on AWS for financial/actuary data. Which AWS service will you



use?

A Elasticache

B Redshift

C DynamoDB

D RDS

Correct Answer: B

Why is this correct?

Amazon Redshift is a fully managed, petabyte-scale data warehouse service in the cloud. You can start with just a few hundred gigabytes of data and scale to a petabyte or more. This enables you to use your data to acquire new insights for your business and customers. <https://docs.aws.amazon.com/redshift/latest/mgmt/welcome.html>
(<https://docs.aws.amazon.com/redshift/latest/mgmt/welcome.html>)

46. You need an AWS service that can identify objects, people, text, scenes, and activities in images and videos. Which service would you choose?



A CloudSearch

B AWS Inspector

C CloudWatch

D Rekognition

Correct Answer: D

Why is this correct?

Amazon Rekognition makes it easy to add image and video analysis to your applications using proven, highly scalable, deep learning technology that requires no machine learning expertise to use. <https://aws.amazon.com/rekognition/?blog-cards.sort-by=item.additionalFields.createdDate&blog-cards.sort-order=desc>
(<https://aws.amazon.com/rekognition/?blog-cards.sort-by=item.additionalFields.createdDate&blog-cards.sort-order=desc>)

47. Your company utilizes DNS and wants to migrate DNS and management of DNS to the cloud. Which AWS service would you use?



A Route 53

B Application Load Balancers

☐ C CloudFront

☐ D CloudFormation

Correct Answer: A

Why is this correct?

Amazon Route 53 provides highly available and scalable Domain Name System (DNS) services, domain name registration, and health-checking web services. It is designed to give developers and businesses an extremely reliable and cost-effective way to route end users to Internet applications by translating names like example.com into the numeric IP addresses, such as 192.0.2.1, that computers use to connect. <https://aws.amazon.com/route53/> (<https://aws.amazon.com/route53/>)

48. Your company hosts gaming applications online and would like to deliver these apps to a worldwide audience. Which AWS Service would enable delivery to users worldwide and greatly improve response times?



☐ A DynamoDB

☐ B ElastiCache

☒ C CloudFront

☐ D CloudFormation

Correct Answer: C

Why is this correct?

Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment.

49. With which AWS service, coupled with EC2, can you implement elasticity by adding and removing instances as needed?



☐ A CloudFormation

☒ B Auto Scaling

☐ C AWS Systems Manager

☐ D Elastic Beanstalk

Correct Answer: B

Why is this correct?

AWS Auto Scaling monitors your applications and automatically adjusts capacity to maintain steady, predictable performance at the lowest possible cost. In this way, the necessary EC2 instances will expand and contract based on the current demands placed on the application.

50. You need to store key-value pairs of users and their high scores for a gaming application. Which is the best option for this type of data?



A AWS S3

B DynamoDB

C RDS MySQL

D Amazon RedShift

Correct Answer: B

Why is this correct?

DynamoDB is ideally suited for storing key-value pairs as it is a key-value and document database that delivers single-digit millisecond performance at any scale. <https://aws.amazon.com/dynamodb/> (<https://aws.amazon.com/dynamodb/>)

51. A developer is trying to programmatically retrieve information from an EC2 instance such as public keys, ip address, and instance id. From where can this information be retrieved?



A Instance metadata

B CloudWatch Logs

C Instance Snapshot

D Instance userdata

Correct Answer: A

Why is this correct?

This type of data is stored in Instance metadata.

52. There have been some questionable activities in your AWS account. You need to review your event history, such as actions taken from the Management Console and the CLI. Which service records this type of information?



A AWS CloudTrail

B AWS CloudWatch

☐ C IAM☐ D AWS Config**Correct Answer: A****Why is this correct?**

AWS CloudTrail is a service that enables governance, compliance, operational auditing, and risk auditing of your AWS account. With CloudTrail, you can log, continuously monitor, and retain account activity related to actions across your AWS infrastructure. CloudTrail provides the event history of your AWS account activity, including actions taken through the AWS Management Console, AWS SDKs, command line tools, and other AWS services. This event history simplifies security analysis, resource change tracking, and troubleshooting. In addition, you can use CloudTrail to detect unusual activity in your AWS accounts. These capabilities help simplify operational analysis and troubleshooting.

<https://aws.amazon.com/cloudtrail/> (<https://aws.amazon.com/cloudtrail/>)

53. Several EC2 instances in a public subnet need internet access. Which will you configure as one step in granting internet access?

☐ A API Gateway☐ B VPC Peering☐ C NAT Gateway☒ D Internet Gateway**Correct Answer: D****Why is this correct?**

An internet gateway is a horizontally scaled, redundant, and highly available VPC component that allows communication between your VPC and the internet. An internet gateway serves two purposes: to provide a target in your VPC route tables for internet-routable traffic, and to perform network address translation (NAT) for instances that have been assigned public IPv4 addresses. https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html (https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html)

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 DynamoDb☐ B VPC☐ C EC2☒ D S3**Correct Answer: A**

Why is this correct?

DynamoDB provides this replication.

Correct Answer: D**Why is this correct?**

S3 provides this replication.

55. You are trying out AWS on a trial basis and need to deploy an application without having to configure servers. Which AWS service can you use?



A ECS

B CloudFormation

C Auto Scaling

D Elastic Beanstalk

Correct Answer: D**Why is this correct?**

AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS. <https://aws.amazon.com/elasticbeanstalk/> (<https://aws.amazon.com/elasticbeanstalk/>)

Domain 4: Billing and Pricing



56. You need to purchase reserved instances for a 3-year project. But a company initiative may change all the company compute operating systems from Windows to Linux midway through this project. What type of reserved instance should you purchase?



A Automatic



B Standard

C Convertible

D Zonal

Correct Answer: C**Why is this correct?**

Can be exchanged during the term for another Convertible Reserved Instance with new attributes including instance family, instance type, platform, scope, or tenancy. <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/reserved-instances-types.html> (<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/reserved-instances-types.html>)

57. You have many database backups that you need to store for an indefinite amount of time. If the backups are ever needed, they just need to be retrieved within 6 hours. What is the lowest cost solution for this scenario?  

A Amazon S3 Standard-IA

B Amazon S3



C Amazon EFS

D Amazon Glacier

Correct Answer: D

Why is this correct?

Amazon Glacier provides the lowest cost option for long-term storage and is perfectly suited for this scenario. The backups would not need to be retrieved quickly, so Glacier is the best option. <https://aws.amazon.com/glacier/> (<https://aws.amazon.com/glacier/>)

58. A company has multiple AWS accounts across multiple regions. Which AWS service can be used to manage these accounts and provide consolidated billing?  

A CloudFormation

B Trusted Advisor



C Identity and Access Management

D AWS Organizations

Correct Answer: D

Why is this correct?

AWS Organizations helps you centrally govern your environment as you grow and scale your workloads on AWS. Whether you are a growing startup or a large enterprise, Organizations helps you to centrally manage billing; control access, compliance, and security; and share resources across your AWS accounts. <https://aws.amazon.com/organizations/> (<https://aws.amazon.com/organizations/>)

59. You have used on-demand instances for a month, but have met unexpected costs with this choice. Which EC2 option provides up to 90% discount on on-demand instances while taking advantage of AWS unused EC2 capacity?  

A Spot Instances

B Reserved Instances

C Virtual Instances

D Dedicated Host

Correct Answer: A

Why is this correct?

Amazon EC2 Spot Instances let you take advantage of unused EC2 capacity in the AWS cloud. Spot Instances are available at up to a 90% discount compared to On-Demand prices. You can use Spot Instances for various stateless, fault-tolerant, or flexible applications such as big data, containerized workloads, CI/CD, web servers, high-performance computing (HPC), and test and development workloads. Because Spot Instances are tightly integrated with AWS services such as Auto Scaling, EMR, ECS, CloudFormation, Data Pipeline and AWS Batch, you can choose how to launch and maintain your applications running on Spot Instances. <https://aws.amazon.com/ec2/spot/> (<https://aws.amazon.com/ec2/spot/>)

60. You have decided to use the AWS Cost and Usage Report to track your EC2 Reserved Instance costs. Which AWS service can be used to store AWS Cost and Usage report files?



A Trusted Advisor

B CloudWatch

C An S3 Bucket that you own.

D An AWS owned S3 Bucket.

Correct Answer: C

Why is this correct?

The AWS Cost and Usage Reports (AWS CUR) contains the most comprehensive set of cost and usage data available. You can use Cost and Usage Reports to publish your AWS billing reports to an Amazon Simple Storage Service (Amazon S3) bucket that you own. You can receive reports that break down your costs by the hour or day, by product or product resource, or by tags that you define yourself. AWS updates the report in your bucket once a day in comma-separated value (CSV) format. You can view the reports using spreadsheet software such as Microsoft Excel or Apache OpenOffice Calc, or access them from an application using the Amazon S3 API. <https://docs.aws.amazon.com/cur/latest/userguide/what-is-cur.html> (<https://docs.aws.amazon.com/cur/latest/userguide/what-is-cur.html>)

61. A large company is using multiple AWS accounts and would like to benefit from available volume discounts in AWS. Which AWS feature will enable the company to get volume discounts?



A Use AWS Organizations and its consolidated billing feature to consolidate billing and payment for multiple AWS accounts.

B Contact AWS to request volume discounts.

☐ C Use free tier as much as possible.

☐ D Upgrade to an Enterprise Support Plan.

Correct Answer: A

Why is this correct?

Consolidated billing has the benefit of combining usage across all accounts in the organization to share the volume pricing discounts, Reserved Instance discounts, and Savings Plans. This can result in a lower charge for your project, department, or company than with individual standalone accounts. Reference: Consolidated billing for AWS Organizations (<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>).

62. A healthcare company has nightly batch jobs that can afford to be interrupted. Which EC2 pricing model can meet this need and provide great savings by using a supply and demand model?



☐ A Standard Reserved Instances

☐ B On-Demand

☒ C Spot Instances

☐ D Scheduled Reserved Instances

Correct Answer: C

Why is this correct?

Amazon EC2 Spot Instances let you take advantage of unused EC2 capacity in the AWS cloud. Spot Instances are available at up to a 90% discount compared to On-Demand prices. You can use Spot Instances for various stateless, fault-tolerant, or flexible applications such as big data, containerized workloads, CI/CD, web servers, high-performance computing (HPC), and test and development workloads. <https://aws.amazon.com/ec2/spot/> (<https://aws.amazon.com/ec2/spot/>)

63. Which S3 storage class is the best value for long-term storage?



☐ A S3 Standard Infrequent-Access

☒ B Glacier

☐ C S3 Standard

☐ D S3 Intelligent-Tiering

Correct Answer: B

Why is this correct?

Glacier is a low-cost storage option for Data Archiving. It can take several hours to retrieve the data, but if this is acceptable, it is the best value for long-term storage of data. <https://aws.amazon.com/s3/storage-classes/> (<https://aws.amazon.com/s3/storage-classes/>)

64. Your company is considering migrating its data center to the cloud. What are the advantages of the AWS cloud over an on-premises data center?



- A Replace upfront operational expenses with low variable operational expenses.
- B Maintain physical access to the new data center, but share responsibility with AWS.
- C Replace low variable costs with upfront capital expenses.
- D Replace upfront capital expenses with low variable costs.**

Correct Answer: D

Why is this correct?

All the hardware purchased upfront for a data center will be replaced by resources which are variable in nature with low upfront costs. <https://d1.awsstatic.com/whitepapers/introduction-to-aws-cloud-economics-final.pdf> (<https://d1.awsstatic.com/whitepapers/introduction-to-aws-cloud-economics-final.pdf>)

65. Your company is migrating to the AWS Cloud. For servers, your company has existing server-bound software licenses that they would like to continue to use. Which EC2 purchasing option allows this?



- A Spot
- B On-Demand
- C Dedicated Host**
- D Reserved

Correct Answer: C

Why is this correct?

The Dedicated Host option will allow for reuse of these hardware bound licenses. <https://aws.amazon.com/ec2/dedicated-hosts/> (<https://aws.amazon.com/ec2/dedicated-hosts/>)