

Amazon.Premium.AWS Certified Cloud Practitioner.864q

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Exam A**QUESTION 1**

A company is building a business intelligence solution and wants to use dashboards for reporting purposes. Which AWS service can be used?

- A. Amazon Redshift
- B. Amazon Elasticsearch Service (Amazon ES)
- C. Amazon QuickSight
- D. Amazon Athena

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/getting-started/hands-on/create-business-intelligence-dashboards-using-amazonquicksight/>**QUESTION 2**

Which of the Reserved Instance (RI) pricing models can change the attributes of the RI as long as the exchange results in the creation of RIs of equal or greater value?

- A. Dedicated RIs
- B. Scheduled RIs
- C. Convertible RIs
- D. Standard RIs

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/reserved-instances/>**QUESTION 3**

Using Amazon Elastic Container Service (Amazon ECS) to break down a monolithic architecture into microservices is an example of:

- A. a loosely coupled architecture.
- B. a tightly coupled architecture.
- C. a stateless architecture.
- D. a stateful architecture.

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/apn/migrating-applications-from-monolithic-to-microservice-on-aws/>**QUESTION 4**

A media company wants to distribute video content to millions of users worldwide over the internet. The company wants to use the AWS global network backbone to distribute cached content with low latency and high data transfer speeds. Which AWS service will meet these requirements?

- A. Amazon CloudFront
- B. AWS Global Accelerator
- C. AWS Direct Connect

D. Amazon Connect

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/cloudfront/>

QUESTION 5

Which AWS managed service is used to host databases?

- A. AWS Batch
- B. AWS Artifact
- C. AWS Data Pipeline
- D. Amazon RDS

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
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 timeconsuming 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 compatibility they need.
Reference: <https://aws.amazon.com/rds/?c=db&sec=srv>

QUESTION 6

Which activity is a customer responsibility in the AWS Cloud according to the AWS shared responsibility model?

- A. Ensuring network connectivity from AWS to the internet
- B. Patching and fixing flaws within the AWS Cloud infrastructure
- C. Ensuring the physical security of cloud data centers
- D. Ensuring Amazon EBS volumes are backed up

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/blogs/security/the-aws-shared-responsibility-model-and-gdpr/>

QUESTION 7

A company needs a content delivery network that provides secure delivery of data, videos, applications, and APIs to users globally with low latency and high transfer speed.
Which AWS service meets these requirements?

- A. Amazon CloudFront
- B. Elastic Load Balancing
- C. Amazon S3
- D. Amazon Elastic Transcoder

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/cloudfront/>

QUESTION 8

A company has a compliance requirement to record and evaluate configuration changes, as well as perform remediation actions on AWS resources. Which AWS service should the company use?

- A. AWS Config
- B. AWS Secrets Manager
- C. AWS CloudTrail
- D. AWS Trusted Advisor

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/config/>

QUESTION 9

A company wants to deploy some of its resources in the AWS Cloud. To meet regulatory requirements, the data must remain local and on premises. There must be low latency between AWS and the company resources. Which AWS service or feature can be used to meet these requirements?

- A. AWS Local Zones
- B. Availability Zones
- C. AWS Outposts
- D. AWS Wavelength Zones

Correct Answer: C

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://d1.awsstatic.com/whitepapers/hybrid-cloud-with-aws.pdf> (18)

QUESTION 10

Which service is best for storing common database query results, which helps to alleviate database access load?

- A. Amazon Machine Learning
- B. Amazon SQS
- C. Amazon ElastiCache
- D. Amazon EC2 Instance Store

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon ElastiCache for Redis is a great choice for implementing a highly available, distributed, and secure in-memory cache to decrease access latency, increase throughput, and ease the load off your relational or NoSQL databases and applications. ElastiCache can serve frequently requested items at sub-millisecond response times, and enables you to easily scale for higher loads without growing the costlier backend databases. Database query results caching, persistent session caching, and full-page caching are all popular examples of caching with ElastiCache for Redis.

Reference: <https://aws.amazon.com/products/databases/real-time-apps-elasticsearch-for-redis/>

QUESTION 11

A company needs a firewall that will control network connections to and from a single Amazon EC2 instance. This firewall will not control network connections to and from other instances that are in the same subnet. Which AWS service or feature can the company use to meet these requirements?

- A. Network ACL

- B. AWS WAF
- C. Route table
- D. Security group

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html

QUESTION 12

Under the AWS shared responsibility model, which of the following are customer responsibilities? (Choose two.)

- A. Setting up server-side encryption on an Amazon S3 bucket
- B. Amazon RDS instance patching
- C. Network and firewall configurations
- D. Physical security of data center facilities
- E. Compute capacity availability

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 13

AWS supports which of the following methods to add security to Identity and Access Management (IAM) users? (Choose two.)

- A. Implementing Amazon Rekognition
- B. Using AWS Shield-protected resources
- C. Blocking access with Security Groups
- D. Using Multi-Factor Authentication (MFA)
- E. Enforcing password strength and expiration

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

A company needs to monitor and forecast AWS costs and usage. The company also must set event-driven alert notifications that occur if spending limits are exceeded. Which AWS service or tool should the company use to meet these requirements?

- A. AWS Budgets
- B. Amazon CloudWatch
- C. AWS Config
- D. AWS Service Catalog

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/aws-cost-management/aws-budgets/>

QUESTION 15

A company wants to distribute its incoming traffic across multiple Amazon EC2 instances.
Which AWS service or feature should be used to meet this requirement?

- A. Amazon Virtual Private Cloud (Amazon VPC)
- B. AWS Application Load Balancer
- C. AWS Managed VPN
- D. AWS Direct Connect

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/elasticloadbalancing/latest/application/introduction.html>

QUESTION 16

Which AWS support plan includes a dedicated Technical Account Manager?

- A. Developer
- B. Enterprise
- C. Business
- D. Basic

Correct Answer: B

Section: (none)

Explanation



Explanation/Reference:

Explanation:
The enterprise support plans supports technical account manager. Developer and business support plans are devoid of this facility. Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 17

What does AWS Marketplace allow users to do? (Choose two.)

- A. Sell unused Amazon EC2 Spot Instances.
- B. Sell solutions to other AWS users.
- C. Buy third-party software that runs on AWS.
- D. Purchase AWS security and compliance documents.
- E. Order AWS Snowball.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/marketplace>

QUESTION 18

A company is moving multiple applications to a single AWS account. The company wants to monitor the AWS Cloud costs incurred by each application.
What can the company do to meet this requirement?

- A. Set up invoiced billing.
- B. Use AWS Artifact.

- C. Set the budgets in Cost Explorer.
- D. Create cost allocation tags.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/cost-alloc-tags.html>

QUESTION 19

What helps a company provide a lower latency experience to its users globally?

- A. Using an AWS Region that is central to all users
- B. Using a second Availability Zone in the AWS Region that is being used
- C. Enabling caching in the AWS Region that is being used
- D. Using edge locations to put content closer to all users

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 20

Which AWS security service protects applications from distributed denial of service attacks with always-on detection and automatic inline mitigations?

- A. Amazon Inspector
- B. AWS Web Application Firewall (AWS WAF)
- C. Elastic Load Balancing (ELB)
- D. AWS Shield

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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.

Reference: <https://aws.amazon.com/shield/>

QUESTION 21

Which AWS service provides a self-service portal for on-demand access to AWS compliance reports?

- A. AWS Config
- B. AWS Certificate Manager
- C. Amazon Inspector
- D. AWS Artifact

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and select online agreements. Reports available in AWS Artifact include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) reports, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls. Agreements available in AWS Artifact include the Business Associate Addendum (BAA) and the Nondisclosure Agreement (NDA).

Reference: <https://aws.amazon.com/artifact/>

QUESTION 22

Which AWS services can host a Microsoft SQL Server database? (Choose two.)

- A. Amazon EC2
- B. Amazon Relational Database Service (Amazon RDS)
- C. Amazon Aurora
- D. Amazon Redshift
- E. Amazon S3

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/sql/>

QUESTION 23

Which AWS service or tool gives a company the ability to release application changes in an automated way?

- A. Amazon AppFlow
- B. AWS CodeDeploy
- C. AWS PrivateLink
- D. Amazon EKS Distro

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/codedeploy/>

QUESTION 24

An independent software vendor (ISV) wants to deploy its application on AWS. The ISV's customers must be able to access the application securely from their own AWS accounts. Which AWS service or feature can the ISV use to securely provide access to its application?

- A. Virtual private gateway
- B. AWS Client VPN
- C. Internet gateway
- D. AWS PrivateLink

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Client VPN is a fully managed service that provides customers with the ability to securely access AWS and onpremises resources from any location using OpenVPN based clients.

Reference: <https://aws.amazon.com/blogs/networking-and-content-delivery/introducing-aws-client-vpn-to-securely-accessaws-and-on-premises-resources/>

QUESTION 25

Which AWS service automatically handles application health monitoring?

- A. Amazon API Gateway
- B. AWS Elastic Beanstalk
- C. AWS Lambda
- D. AWS Config

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/elasticbeanstalk/>

QUESTION 26

Which of the following are categories of AWS Trusted Advisor? (Choose two.)

- A. Fault Tolerance
- B. Instance Usage
- C. Infrastructure
- D. Performance
- E. Storage Capacity

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Like your customized cloud expert, AWS Trusted Advisor analyzes your AWS environment and provides best practice recommendations in five categories: cost optimization, performance, security, fault tolerance and service limits.
Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/>

QUESTION 27

What is one of the advantages of the Amazon Relational Database Service (Amazon RDS)?

- A. It simplifies relational database administration tasks.
- B. It provides 99.999999999% reliability and durability.
- C. It automatically scales databases for loads.
- D. It enables users to dynamically adjust CPU and RAM resources.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

Which mechanism allows developers to access AWS services from application code?

- A. AWS Software Development Kit
- B. AWS Management Console
- C. AWS CodePipeline
- D. AWS Config

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/tools/>

QUESTION 29

Which AWS service or feature provides users with recommendations for common billing questions?

- A. AWS Marketplace
- B. AWS Knowledge Center
- C. Amazon Pinpoint
- D. Amazon Connect

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:**QUESTION 30**

A company is expecting a short-term spike in internet traffic for its application. During the traffic increase, the application cannot be interrupted. The company also needs to minimize cost and maximize flexibility. Which Amazon EC2 instance type should the company use to meet these requirements?

- A. On-Demand Instances
- B. Spot Instances
- C. Reserved Instances
- D. Dedicated Hosts

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/faqs/>

QUESTION 31

One of the advantages to moving infrastructure from an on-premises data center to the AWS Cloud is:

- A. it allows the business to eliminate IT bills.
- B. it allows the business to put a server in each customer's data center.
- C. it allows the business to focus on business activities.
- D. it allows the business to leave servers unpatched.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 32**

Which service enables customers to audit API calls in their AWS accounts?

- A. AWS CloudTrail
- B. AWS Trusted Advisor
- C. Amazon Inspector
- D. AWS X-Ray

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/cloudtrail/>

QUESTION 33

A user has underutilized on-premises resources.

Which AWS Cloud concept can BEST address this issue?

A. High availability

B. Elasticity

C. Security

D. Loose coupling

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.gremlin.com/blog/implementing-cost-saving-strategies-on-amazon-ec-2-with-chaos-engineering/>

QUESTION 34

A customer would like to design and build a new workload on AWS Cloud but does not have the AWS-related software technical expertise in-house.

Which of the following AWS programs can a customer take advantage of to achieve that outcome?

A. AWS Partner Network Technology Partners

B. AWS Marketplace

C. AWS Partner Network Consulting Partners

D. AWS Service Catalog

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

Which AWS service or feature is used to troubleshoot network connectivity issues between Amazon EC2 instances?

A. AWS Certificate Manager (ACM)

B. Internet gateway

C. VPC Flow Logs

D. AWS CloudHSM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference <https://aws.amazon.com/premiumsupport/knowledge-center/network-issue-vpc-onprem-ig/>

QUESTION 36

Which of the following services can be used to block network traffic to an instance? (Choose two.)

- A. Security groups
- B. Amazon Virtual Private Cloud (Amazon VPC) flow logs
- C. Network ACLs
- D. Amazon CloudWatch
- E. AWS CloudTrail

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/ec2-block-or-allow-ips/>

QUESTION 37

Amazon Relational Database Service (Amazon RDS) offers which of the following benefits over traditional database management?

- A. AWS manages the data stored in Amazon RDS tables.
- B. AWS manages the maintenance of the operating system.
- C. AWS automatically scales up instance types on demand.
- D. AWS manages the database type.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

A company is migrating from on-premises data centers to the AWS Cloud and is looking for hands-on help with the project. How can the company get this support? (Choose two.)

- A. Ask for a quote from the AWS Marketplace team to perform a migration into the company's AWS account.
- B. Contact AWS Support and open a case for assistance
- C. Use AWS Professional Services to provide guidance and to set up an AWS Landing Zone in the company's AWS account
- D. Select a partner from the AWS Partner Network (APN) to assist with the migration
- E. Use Amazon Connect to create a new request for proposal (RFP) for expert assistance in migrating to the AWS Cloud.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/solutions/aws-landing-zone/>

QUESTION 39

A company wants to route its traffic directly and privately to a VPC without going over the public internet. Which connectivity option provides this capability?

- A. AWS VPN
- B. AWS Direct Connect
- C. VPC NAT gateway
- D. VPC internet gateway

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/vpc/faqs/>

QUESTION 40

Which AWS service or feature allows the user to manager cross-region application traffic?

- A. Amazon AppStream 2.0
- B. Amazon VPC
- C. Elastic Load Balancer
- D. Amazon Route 53

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:**QUESTION 41**

Which options are available to a user who wants to contact AWS Support? (Choose two.)

- A. Create an email case in the AWS Support Center.
- B. Visit a local AWS Support Center.
- C. Use live chat functionality.
- D. Call the customer service phone number.
- E. Use the video conference functionality of the AWS Support console.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

If you select Chat, you can chat online with a representative from AWS Support.

If you select Phone, you're prompted for a callback number. You receive a call from AWS Support as soon as you create the case.

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/aws-phone-support/>

**QUESTION 42**

Which AWS service provides a secure, fast, and cost-effective way to migrate or transport exabyte-scale datasets into AWS?

- A. AWS Batch
- B. AWS Snowball
- C. AWS Migration Hub
- D. AWS Snowmobile

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Snowmobile is an exabyte-scale data transfer service that can move extremely large amounts of data to AWS in a fast, secure, and cost-effective manner. You can transfer up to 100PB per Snowmobile, a 45-foot long ruggedized shipping container, pulled by a semi-trailer truck. Snowmobile makes it easy to move massive volumes of data to the cloud, including video libraries, image repositories, or even a complete data center migration. All data is encrypted with 256-bit encryption and you can manage your encryption keys with AWS Key Management Service (AWS KMS). Snowmobile includes GPS tracking, alarm monitoring, 24/7 video surveillance and an optional escort security vehicle while in transit.

Reference: <https://aws.amazon.com/about-aws/whats-new/2016/11/move-exabyte-scale-data-sets-with-aws-snowmobile/>

QUESTION 43

Which guideline is a well-architected design principle for building cloud applications?

- A. Keep static data closer to compute resources.
- B. Provision resources for peak capacity.
- C. Design for automated recovery from failure.
- D. Use tightly coupled components.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

Which of the following are valid ways for a customer to interact with AWS services? (Choose two.)

- A. Command line interface
- B. On-premises
- C. Software Development Kits
- D. Software-as-a-service
- E. Hybrid

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

A company runs its business-critical web application on Amazon Elastic Container Service (Amazon ECS) and Amazon DynamoDB. The workload spikes up to 10 times the normal workload multiple times during the day. Which AWS Cloud feature enables the company to meet these changes in demand?

- A. Agility
- B. Global reach
- C. Scalability
- D. Security

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/autoscaling/>

QUESTION 46

A company hosts an application on an Amazon EC2 instance. The EC2 instance needs to access several AWS resources, including Amazon S3 and Amazon DynamoDB. What is the MOST operationally efficient solution to delegate permissions?

- A. Create an IAM role with the required permissions. Attach the role to the EC2 instance.
- B. Create an IAM user and use its access key and secret access key in the application.
- C. Create an IAM user and use its access key and secret access key to create a CLI profile in the EC2 instance
- D. Create an IAM role with the required permissions. Attach the role to the administrative IAM user.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 47

A company needs to securely store important credentials that an application uses to connect users to a database. Which AWS service can meet this requirement with the MINIMAL amount of operational overhead?

- A. AWS Key Management Service (AWS KMS)
- B. AWS Config
- C. AWS Secrets Manager
- D. Amazon GuardDuty

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/secrets-manager/>

QUESTION 48

A company is migrating an application that is running non-interruptible workloads for a three-year time frame. Which pricing construct would provide the MOST cost-effective solution?

- A. Amazon EC2 Spot Instances
- B. Amazon EC2 Dedicated Instances
- C. Amazon EC2 On-Demand Instances
- D. Amazon EC2 Reserved Instances



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 49**

What is the benefit of using AWS managed services, such as Amazon ElastiCache and Amazon Relational Database Service (Amazon RDS)?

- A. They require the customer to monitor and replace failing instances.
- B. They have better performance than customer-managed services.
- C. They simplify patching and updating underlying OSs.
- D. They do not require the customer to optimize instance type or size selections.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 50**

Which AWS service provides a quick and automated way to create and manage AWS accounts?

- A. AWS QuickSight
- B. Amazon Lightsail

- C. AWS Organizations
- D. Amazon Connect

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/blogs/mt/automate-account-creation-and-resource-provisioning-using-aws-servicecatalog-aws-organizations-and-aws-lambda/>

QUESTION 51

Which of the following is an advantage of consolidated billing on AWS?

- A. Volume pricing qualification
- B. Shared access permissions
- C. Multiple bills per account
- D. Eliminates the need for tagging

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:
If you have multiple standalone accounts, your charges might decrease if you add the accounts to an organization. AWS combines usage from all accounts in the organization to qualify you for volume pricing discounts.
Reference: <https://help.nops.io/consolidated-billing>

QUESTION 52

What approach to transcoding a large number of individual video files adheres to AWS architecture principles?

- A. Using many instances in parallel
- B. Using a single large instance during off-peak hours
- C. Using dedicated hardware
- D. Using a large GPU instance type

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/solutions/case-studies/encoding/>

QUESTION 53

How does consolidated billing help reduce costs for a company that has multiple AWS accounts?

- A. It aggregates usage across accounts so that the company can reach volume discount thresholds sooner.
- B. It offers an additional 5% discount on purchases of All Upfront Reserved Instances.
- C. It provides a simplified billing invoice that the company can process more quickly than a standard invoice.
- D. It gives AWS resellers the ability to bill their customers for usage.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:

Reference: https://docs.amazonaws.cn/en_us/awsaccountbilling/latest/aboutv2/consolidated-billing.html

QUESTION 54

Which services use AWS edge locations? (Choose two.)

- A. Amazon CloudFront
- B. AWS Shield
- C. Amazon EC2
- D. Amazon RDS
- E. Amazon ElastiCache

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.edureka.co/community/600/what-is-an-edge-location-in-aws>

QUESTION 55

How can a company isolate the costs of production and non-production workloads on AWS?

- A. Create Identity and Access Management (IAM) roles for production and non-production workloads.
- B. Use different accounts for production and non-production expenses.
- C. Use Amazon EC2 for non-production workloads and other services for production workloads.
- D. Use Amazon CloudWatch to monitor the use of services.

Correct Answer: B

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/answers/account-management/aws-multi-account-billing-strategy/>

QUESTION 56

Which of the following Amazon EC2 pricing models allow customers to use existing server-bound software licenses?

- A. Spot Instances
- B. Reserved Instances
- C. Dedicated Hosts
- D. On-Demand Instances

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/>

QUESTION 57

Which of the following features can be configured through the Amazon Virtual Private Cloud (Amazon VPC) Dashboard? (Choose two.)

- A. Amazon CloudFront distributions
- B. Amazon Route 53
- C. Security Groups

- D. Subnets
- E. Elastic Load Balancing

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon Virtual Private Cloud (Amazon VPC) lets you provision a logically isolated section of the AWS Cloud where you can launch AWS resources in a virtual network that you define. You have complete control over your virtual networking environment, including 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.

You can easily customize the network configuration for your Amazon VPC. For example, you can create a public-facing subnet for your web servers that has access to the Internet, and place your backend systems such as databases or application servers in a private-facing subnet with no Internet access. You can leverage multiple layers of security, including security groups and network access control lists, to help control access to Amazon EC2 instances in each subnet.

Reference: <https://aws.amazon.com/vpc/>

QUESTION 58

What is a characteristic of Convertible Reserved Instances (RIs)?

- A. Users can exchange Convertible RIs for other Convertible RIs from a different instance family.
- B. Users can exchange Convertible RIs for other Convertible RIs in different AWS Regions.
- C. Users can sell and buy Convertible RIs on the AWS Marketplace.
- D. Users can shorten the term of their Convertible RIs by merging them with other Convertible RIs.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ri-convertible-exchange.html>



QUESTION 59

An application designed to span multiple Availability Zones is described as:

- A. being highly available
- B. having global reach
- C. using an economy of scale
- D. having elasticity

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference:
https://books.google.com.pk/books?id=lueWBQAAQBAJ&pg=PA11&lpg=PA11&dq=aws+application+designed+to+span+multiple+Availability+Zones+is+described+as+economy+of+scale&source=bl&ots=cj_NslAXm2&sig=ACfU3U2fe5KOugmORbAoV9lgj_eCGlsItA&hl=en&sa=X&ved=2ahUKEwiGzfrtbroAhVxoUKHRhjC-IQ6AEwCnoECAkQAQ#v=onepage&q=aws%20application%20designed%20to%20span%20multiple%20Availability%20Zones%20is%20described%20as%20economy%20of%20scale&f=false

QUESTION 60

Under the AWS shared responsibility model, what is the customer's responsibility when using an AWS managed service?

- A. Physical security of the data centers
- B. Server-side encryption
- C. Customer data
- D. Operating system patching

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/security/the-aws-shared-responsibility-model-and-gdpr/>

QUESTION 61

Which pillar of the AWS Well-Architected Framework focuses on the ability to recover automatically from service interruptions?

- A. Security
- B. Performance efficiency
- C. Operational excellence
- D. Reliability

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Resiliency is the ability of a workload to recover from infrastructure or service disruptions, dynamically acquire computing resources to meet demand, and mitigate disruptions, such as misconfigurations or transient network issues.

Reference: <https://docs.aws.amazon.com/wellarchitected/latest/reliability-pillar/wellarchitected-reliability-pillar.pdf>

QUESTION 62

What does the AWS Cloud provide to increase the speed and agility of execution for customers? (Choose two.)

- A. Readily available resources with low provisioning times
- B. Scalable compute capacity
- C. Free Tier services usage
- D. Access to AWS data centers
- E. Lower resource provisioning cost

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://d1.awsstatic.com/whitepapers/aws-overview.pdf>

QUESTION 63

A new service using AWS must be highly available. Yet, due to regulatory requirements, all of its Amazon EC2 instances must be located in a single geographic area.

According to best practices, to meet these requirements, the EC2 instances must be placed in at least two:

- A. AWS Regions
- B. Availability Zones
- C. subnets
- D. placement groups

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/faqs/>

QUESTION 64

Which tool can be used to compare the costs of running a web application in a traditional hosting environment to running it on AWS?

- A. AWS Cost Explorer
- B. AWS Budgets
- C. AWS Cost and Usage report
- D. AWS Total Cost of Ownership (TCO) Calculator

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/tco-calculator/>

QUESTION 65

Which AWS service will track user activity on AWS?

- A. Amazon GuardDuty
- B. AWS Trusted Advisor
- C. AWS CloudTrail
- D. Amazon CloudWatch

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference:

<https://aws.amazon.com/cloudtrail/#:~:text=Track%20user%20activity%20and%20API%20usage&text=AWS%20CloudTrail%20is%20a%20service,actions%20across%20your%20AWS%20infrastructure.>

QUESTION 66

A company with AWS Enterprise Support has questions about its consolidated bill.

Which AWS service, feature, or tool should the company use for assistance?

- A. AWS Pricing Calculator
- B. AWS Concierge Support
- C. AWS Trusted Advisor
- D. AWS Budgets

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/faqs/>

QUESTION 67

A company has infrastructure in one AWS Region and is expanding operations to a second AWS Region. The company is using the same AWS CloudFormation template in the second Region that the company uses in the original Region.

The company attempts to launch Amazon EC2 On-Demand Instances in the second Region and receives error messages.

What could cause these error messages?

- A. A new EC2 key pair has not been created for the EC2 instances.
- B. The requested EC2 instance types are not available in the second Region.
- C. The company cannot operate in a second Region until it updates its AWS contract.
- D. The company has not configured AWS Budgets to monitor the budget for the EC2 instances.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The key pair does not exist. Launching EC2 instance failed.

Reference: <https://docs.aws.amazon.com/autoscaling/ec2/userguide/ts-as-instance-launchfailure.html>

QUESTION 68

A company uses Amazon S3 buckets. One of the company's departments enabled S3 Cross-Region Replication for those buckets to meet new requirements. The company's bill for that month was larger than usual. Which AWS service or feature can the company use to confirm that the cost increase was caused by the data replication?

- A. Consolidated billing
- B. Cost Explorer
- C. AWS Pricing Calculator
- D. AWS Trusted Advisor

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/aws-cost-management/aws-cost-explorer/>

QUESTION 69

A user can increase operational efficiency in the AWS Cloud by:

- A. leveraging AWS managed services.
- B. right-sizing AWS infrastructure.
- C. manually creating all necessary resources.
- D. managing their own software licenses.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.ibexlabs.com/improve-operational-efficiency-via-digital-transformation-on-aws/>

QUESTION 70

A company's web application currently has tight dependencies on underlying components, so when one component fails the entire web application fails. Applying which AWS Cloud design principle will address the current design issue?

- A. Implementing elasticity, enabling the application to scale up or scale down as demand changes.
- B. Enabling several EC2 instances to run in parallel to achieve better performance.
- C. Focusing on decoupling components by isolating them and ensuring individual components can function when other components fail.
- D. Doubling EC2 computing resources to increase system fault tolerance.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

Which Amazon EC2 pricing option is best suited for applications with short-term, spiky, or unpredictable workloads that cannot be interrupted?

- A. Spot Instances
- B. Dedicated Hosts
- C. On-Demand Instances
- D. Reserved Instances

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 72

A company is hosting a web application in a Docker container on Amazon EC2.

AWS is responsible for which of the following tasks?

- A. Scaling the web application and services developed with Docker
- B. Provisioning or scheduling containers to run on clusters and maintain their availability
- C. Performing hardware maintenance in the AWS facilities that run the AWS Cloud
- D. Managing the guest operating system, including updates and security patches

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/getting-started/tutorials/deploy-docker-containers/>

QUESTION 73

A company has an AWS-hosted website located behind an Application Load Balancer. The company wants to safeguard the website from SQL injection or cross-site scripting. Which AWS service should the company use?

- A. Amazon GuardDuty
- B. AWS WAF
- C. AWS Trusted Advisor
- D. Amazon Inspector

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/waf/faq/>

QUESTION 74

A company wants to connect to AWS over a private, low-latency connection from its remote office.

What is the recommended method to meet these requirements?

- A. Create a VPN tunnel
- B. Connect across the public internet
- C. Use VPC peering to create a connection.
- D. Use AWS Direct Connect.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/getting-started/projects/connect-data-center-to-aws/>

QUESTION 75

Which AWS hybrid storage service enables your on-premises applications to seamlessly use AWS Cloud storage through standard file-storage protocols?

- A. AWS Direct Connect
- B. AWS Snowball
- C. AWS Storage Gateway
- D. AWS Snowball Edge

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The AWS Storage Gateway service enables hybrid cloud storage between on-premises environments and the AWS Cloud. It seamlessly integrates on-premises enterprise applications and workflows with Amazon's block and object cloud storage services through industry standard storage protocols. It provides low-latency performance by caching frequently accessed data on premises, while storing data securely and durably in Amazon cloud storage services. It provides an optimized data transfer mechanism and bandwidth management, which tolerates unreliable networks and minimizes the amount of data being transferred. It brings the security, manageability, durability, and scalability of AWS to existing enterprise environments through native integration with AWS encryption, identity management, monitoring, and storage services. Typical use cases include backup and archiving, disaster recovery, moving data to S3 for in-cloud workloads, and tiered storage. Reference:

<https://aws.amazon.com/storagegateway/faqs/>

QUESTION 76

What can be used to reduce the cost of running Amazon EC2 instances? (Choose two.)

- A. Spot Instances for stateless and flexible workloads
- B. Memory optimized instances for high-compute workloads
- C. On-Demand Instances for high-cost and sustained workloads
- D. Reserved Instances for sustained workloads
- E. Spend limits set using AWS Budgets

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:**QUESTION 77**

Performing operations as code is a design principle that supports which pillar of the AWS Well-Architected Framework?

- A. Performance efficiency
- B. Operational excellence
- C. Reliability
- D. Security

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>

QUESTION 78

Which service provides a user the ability to warehouse data in the AWS Cloud?

- A. Amazon EFS
- B. Amazon Redshift
- C. Amazon RDS
- D. Amazon VPC

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/redshift/>

QUESTION 79

What is an IAM best practice for AWS account root user access keys?

- A. Delete all root user access keys, if possible.
- B. Use root user credentials to access sensitive information stored on AWS.
- C. Allow the system administrator group to use the root user credentials for daily access.
- D. Use root user credentials to access production database instances.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>



QUESTION 80

A company wants to forecast its AWS Cloud costs for the upcoming year by analyzing its past AWS Cloud spending trends.
Which AWS service should the company use to meet this requirement?

- A. AWS Control Tower
- B. Cost Explorer
- C. AWS OpsWorks
- D. AWS CloudFormation

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ce-forecast.html>

QUESTION 81

According to the AWS shared responsibility model, the customer is responsible for applying the latest security updates and patches for which of the following?

- A. Amazon DynamoDB
- B. Amazon EC2 instances
- C. Amazon RDS instances
- D. Amazon S3

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:****QUESTION 82**

Which AWS services help to improve application performance by reducing latency while accessing content globally?
(Choose two.)

- A. Amazon CloudFront
- B. AWS VPN
- C. AWS Direct Connect
- D. AWS Global Accelerator
- E. Amazon S3 Glacier

Correct Answer: AD**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/networking-and-content-delivery/achieve-up-to-60-better-performance-for-internet-traffic-with-aws-global-accelerator/>**QUESTION 83**

How do customers benefit from Amazon's massive economies of scale?

- A. Periodic price reductions as the result of Amazon's operational efficiencies
- B. New Amazon EC2 instance types providing the latest hardware
- C. The ability to scale up and down when needed
- D. Increased reliability in the underlying hardware of Amazon EC2 instances

**Correct Answer:** A**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 84**

Which of the following are advantages of using Amazon EC2 instances over traditional on-premises servers? (Choose two.)

- A. Pay-as-you-go pricing
- B. Automation
- C. Self-maintenance of servers
- D. Agility
- E. Access to physical hosts

Correct Answer: BD**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 85**

Which cloud computing advantage is a company applying when it uses AWS Regions to increase application availability to users in different countries?

- A. Pay-as-you-go pricing
- B. Capacity forecasting

- C. Economies of scale
D. Global reach

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: https://pages.awscloud.com/rs/112-TZM-766/images/Cloud%20Economics%20Ebook_October%202018.pdf

QUESTION 86

Which AWS Cloud design principles can help increase reliability? (Choose two.)

- A. Using monolithic architecture
B. Measuring overall efficiency
C. Testing recovery procedures
D. Adopting a consumption model
E. Automatically recovering from failure

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://wa.aws.amazon.com/wat.pillar.reliability.en.html>

• **Automatically recover from failure:** By monitoring a workload for key performance indicators (KPIs), you can trigger automation when a threshold is breached. These KPIs should be a measure of business value, not of the technical aspects of the operation of the service. This allows for automatic notification and tracking of failures, and for automated recovery processes that work around or repair the failure. With more sophisticated automation, it's possible to anticipate and remediate failures before they occur.

• **Test recovery procedures:** In an on-premises environment, testing is often conducted to prove that the workload works in a particular scenario. Testing is not typically used to validate recovery strategies. In the cloud, you can test how your workload fails, and you can validate your recovery procedures. You can use automation to simulate different failures or to recreate scenarios that led to failures before. This approach exposes failure pathways that you can test and fix before a real failure scenario occurs, thus reducing risk.

QUESTION 87

A company has distributed its workload on both the AWS Cloud and some on-premises servers. What type of architecture is this?

- A. Virtual private network
B. Virtual private cloud
C. Hybrid cloud
D. Private cloud

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/hybrid/>

QUESTION 88

A company has a managed IAM policy that does not grant the necessary permissions for users to accomplish required tasks.
How can this be resolved?

- A. Enable AWS Shield Advanced
- B. Create a custom IAM policy
- C. Use a third-party web application firewall (WAF) managed rule from the AWS Marketplace
- D. Use AWS Key Management Service (AWS KMS) to create a customer-managed key

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 89

Which AWS service can a customer use to set up an alert notification when the account is approaching a particular dollar amount?

- A. AWS Cost and Usage reports
- B. AWS Budgets
- C. AWS Cost Explorer
- D. AWS Trusted Advisor

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference:
https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/monitor_estimated_charges_with_cloudwatch.html

**QUESTION 90**

Which architecture concept describes the ability to deploy resources on demand and release resources when they are no longer needed?

- A. High availability
- B. Decoupled architecture
- C. Resilience
- D. Elasticity

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://wa.aws.amazon.com/wat.concept.elasticity.en.html>

QUESTION 91

The ability to horizontally scale Amazon EC2 instances based on demand is an example of which concept in the AWS Cloud value proposition?

- A. Economy of scale
- B. Elasticity
- C. High availability
- D. Agility

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 92

Which AWS service can be used to decouple applications?

- A. AWS Config
- B. Amazon Simple Queue Service (Amazon SQS)
- C. AWS Batch
- D. Amazon Simple Email Service (Amazon SES)

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 93

When comparing AWS Cloud with on-premises Total Cost of Ownership, which expenses must be considered? (Choose two.)

- A. Software development
- B. Project management
- C. Storage hardware
- D. Physical servers
- E. Antivirus software license

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 94

How is asset management on AWS easier than asset management in a physical data center?

- A. AWS provides a Configuration Management Database that users can maintain.
- B. AWS performs infrastructure discovery scans on the customer's behalf.
- C. Amazon EC2 automatically generates an asset report and places it in the customer's specified Amazon S3 bucket.
- D. Users can gather asset metadata reliably with a few API calls.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
AWS assets are centrally managed through an inventory management system that stores and tracks owner, location, status, maintenance, and descriptive information for AWS-owned assets. Following procurement, assets are scanned and tracked, and assets undergoing maintenance are checked and monitored for ownership, status, and resolution. Reference:
<https://aws.amazon.com/compliance/data-center/controls/>

QUESTION 95

Which feature can be used to protect Amazon S3 buckets from accidental overwrites or deletes?

- A. Lifecycle policy
- B. Object versioning
- C. Server-side encryption
- D. Bucket ACL

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://medium.com/tensult/how-to-protect-objects-from-accidental-deletion-and-overwrite-using-s3-objectversioning-5222796ab156>

S3 Object Versioning is one of the most salient features in Amazon S3.

Object versioning is used to avoid unintended overwrite and deletion.

Versioning is not enabled by default and this feature is used to keep multiple versions of objects at the same time in the bucket.

If we enable versioning on the bucket, we cannot delete an object directly.

All versions remain in the bucket and a delete marker is introduced which becomes the current version. So if you need to delete an object, you need to remove that delete marker also. Existing objects in your bucket do not change and only future requests behavior changes. If we put an object retrieval request, the current version of the object will always return.

QUESTION 96

Where can users find a catalog of AWS-recognized providers of third-party security solutions?

- A. AWS Service Catalog
- B. AWS Marketplace
- C. AWS Quick Start
- D. AWS CodeDeploy

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Service Catalog Delivery Partners are APN Consulting Partners who help create catalogs of IT services that are approved by the customer's organization for use on AWS. With AWS Service Catalog, customers and partners can centrally manage commonly deployed IT services to help achieve consistent governance and meet compliance requirements while enabling users to self-provision approved services.

Reference: <https://aws.amazon.com/servicecatalog/partners/>

QUESTION 97

A company wants to use an AWS service to monitor the health of application endpoints, with the ability to route traffic to healthy regional endpoints to improve application availability. Which service will support these requirements?

- A. Amazon Inspector
- B. Amazon CloudWatch
- C. AWS Global Accelerator
- D. Amazon CloudFront

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Global Accelerator uses the AWS global network to optimize the path from your users to your applications, improving the performance of your traffic by as much as 60%. AWS Global Accelerator continually monitors the health of your application endpoints and redirects traffic to healthy endpoints in less than 30 seconds.

Reference: <https://aws.amazon.com/global-accelerator/?blogs-global-accelerator.sortby=item.additionalFields.createdDate&blogs-global-accelerator.sort-order=desc&aws-global-acceleratorwn.sortby=item.additionalFields.postDateTime&aws-global-accelerator-wn.sort-order=desc>

QUESTION 98

When comparing AWS with on-premises Total Cost of Ownership (TCO), what costs are included?

- A. Data center security
- B. Business analysis
- C. Project management
- D. Operating system administration

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 99

Which of the following acts as a virtual firewall at the Amazon EC2 instance level to control traffic for one or more instances?

- A. Access keys
- B. Virtual private gateways
- C. Security groups
- D. Access Control Lists (ACL)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-security-groups.html>

QUESTION 100

How can a user achieve high availability for a web application hosted on AWS?

- A. Use a Classic Load Balancer across multiple AWS Regions.
- B. Use an Application Load Balancer across multiple Availability Zones in one AWS Region.
- C. Set up automatic scaling and load balancing with another application instance running on premises.
- D. Use the AWS Region with the highest number of Availability Zones.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 101

Which AWS tool will identify security groups that grant unrestricted Internet access to a limited list of ports?

- A. AWS Organizations
- B. AWS Trusted Advisor
- C. AWS Usage Report
- D. Amazon EC2 dashboard

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 102

A cloud practitioner needs an Amazon EC2 instance to launch and run for 7 hours without interruptions.

What is the most suitable and cost-effective option for this task?

- A. On-Demand Instance
- B. Reserved Instance
- C. Dedicated Host
- D. Spot Instance

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/spot/details/>

QUESTION 103

What is a benefit of consolidated billing for AWS accounts?

- A. Access to AWS Personal Health Dashboard
- B. Combined usage volume discounts
- C. Improved account security
- D. Centralized AWS IAM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://jayendrapatil.com/aws-consolidated-billing/>



Consolidated Billing Benefits

- **One Bill**
 - A single bill with a combined view of AWS costs incurred by all accounts is generated
- **Easy Tracking**
 - Detailed cost report & charges for each of the individual AWS accounts associated with the "paying account" can be easily tracked
- **Combined Usage & Volume Discounts**
 - Charges might actually decrease because AWS combines usage from all the accounts to qualify you for **volume pricing discounts**
- **Free Tier**
 - Customers that use Consolidated Billing to consolidate payment across multiple accounts **will only have access to one free usage tier** and it is not combined across accounts

QUESTION 104

Which of the following are benefits of using AWS Trusted Advisor? (Choose two.)

- A. Providing high-performance container orchestration
- B. Creating and rotating encryption keys
- C. Detecting underutilized resources to save costs
- D. Improving security by proactively monitoring the AWS environment
- E. Implementing enforced tagging across AWS resources

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/about-aws/whats-new/2016/06/aws-support-enables-tagging-capabilities-for-trustedadvisor/>

QUESTION 105

According to the AWS shared responsibility model, what is AWS responsible for?

- A. Configuring Amazon VPC
- B. Managing application code
- C. Maintaining application traffic
- D. Managing the network infrastructure

Correct Answer: D

Section: (none)

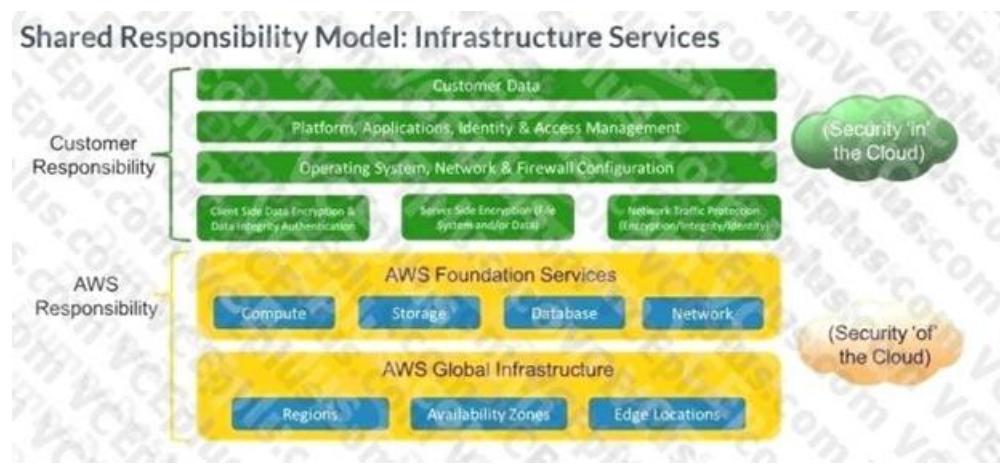
Explanation

Explanation/Reference:

Explanation:

Reference: <https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>

VCEup

**QUESTION 106**

Which Amazon EC2 pricing model is the MOST cost efficient for an uninterrupted workload that runs once a year for 24 hours?

- A. On-Demand Instances
- B. Reserved Instances
- C. Spot Instances
- D. Dedicated Instances

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

With On-Demand instances, you pay for compute capacity by the hour or the second depending on which instances you run.

No longer-term commitments or upfront payments are needed. You can increase or decrease your compute capacity depending on the demands of your application and only pay the specified per hourly rates for the instance you use.

Reference: <https://aws.amazon.com/ec2/pricing/>

QUESTION 107

What can be used to automate and manage secure, well-architected, multi-account AWS environments?

- A. AWS shared responsibility model
- B. AWS Control Tower
- C. AWS Security Hub
- D. AWS Well-Architected Tool

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Control Tower automates the process of setting up a new baseline multi-account AWS environment that is secure, wellarchitected, and ready to use. Control Tower incorporates the knowledge that AWS Professional Service has gained over the course of thousands of successful customer engagements.

Reference: <https://aws.amazon.com/blogs/aws/aws-control-tower-set-up-govern-a-multi-account-aws-environment/>

QUESTION 108

What technology enables compute capacity to adjust as loads change?

- A. Load balancing
- B. Automatic failover
- C. Round robin
- D. Auto Scaling

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

AWS Auto Scaling monitors your applications and automatically adjusts capacity to maintain steady, predictable performance at the lowest possible cost. Using AWS Auto Scaling, it's easy to setup application scaling for multiple resources across multiple services in minutes. The service provides a simple, powerful user interface that lets you build scaling plans for resources including Amazon EC2 instances and Spot Fleets, Amazon ECS tasks, Amazon DynamoDB tables and indexes, and Amazon Aurora Replicas. AWS Auto Scaling makes scaling simple with recommendations that allow you to optimize performance, costs, or balance between them. If you're already using Amazon EC2 Auto Scaling to dynamically scale your Amazon EC2 instances, you can now combine it with AWS Auto Scaling to scale additional resources for other AWS services. With AWS Auto Scaling, your applications always have the right resources at the right time.

Reference: <https://aws.amazon.com/autoscaling/>**QUESTION 109**

A company uses Amazon DynamoDB in its AWS Cloud architecture.

According to the AWS shared responsibility model, which of the following are responsibilities of the company? (Choose two.)

- A. Operating system patching and upgrades
- B. Application of appropriate permissions with IAM tools
- C. Configuration of data encryption options
- D. Creation of DynamoDB endpoints
- E. Infrastructure provisioning and maintenance

Correct Answer: BD**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 110**

A company has an AWS environment that consists of a VPC, multiple subnets, and many Amazon EC2 instances in the subnets. An engineer wants to restrict inbound traffic to one particular EC2 instance without affecting the other EC2 instances.

Which AWS service or feature should the engineer use to meet this requirement?

- A. Network ACLs
- B. Security groups
- C. Amazon GuardDuty
- D. AWS Shield

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/ec2-block-or-allow-ips/>**QUESTION 111**

A company spends several months upgrading its on-premises infrastructure every few years. The company wants to reduce infrastructure procurement time by migrating to the AWS Cloud.

What is the main benefit of migrating to the AWS Cloud for this use case?

- A. AWS will help move the existing hardware to the AWS data centers.
- B. The company will have increased agility with on-demand access to IT resources.
- C. Enterprise support will be available to help with recurring application installation and setup.
- D. The company will experience less downtime with Multi-AZ deployments.

Correct Answer: B**Section:** (none)**Explanation**

Explanation/Reference:**QUESTION 112**

Which solution provides the FASTEST application response times to frequently accessed data to users in multiple AWS Regions?

- A. AWS CloudTrail across multiple Availability Zones
- B. Amazon CloudFront to edge locations
- C. AWS CloudFormation in multiple regions
- D. A virtual private gateway over AWS Direct Connect

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

You can deliver content and decrease end-user latency of your web application using Amazon CloudFront. CloudFront speeds up content delivery by leveraging its global network of data centers, known as edge locations, to reduce delivery time by caching your content close to your end users. CloudFront fetches your content from an origin, such as an Amazon S3 bucket, an Amazon EC2 instance, an Amazon Elastic Load Balancing load balancer or your own web server, when it's not already in an edge location. CloudFront can be used to deliver your entire website or application, including dynamic, static, streaming, and interactive content.

Reference: <https://aws.amazon.com/getting-started/tutorials/deliver-content-faster/>

QUESTION 113

Which AWS service or feature is available only to users who have an AWS Enterprise Support plan?

- A. AWS Trusted Advisor
- B. AWS Support case
- C. AWS Concierge Support team
- D. Amazon Connect

**Correct Answer:** C**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 114

Which cloud computing benefit does AWS demonstrate with its ability to offer lower variable costs as a result of high purchase volumes?

- A. Pay-as-you-go pricing
- B. High availability
- C. Global reach
- D. Economies of scale

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: <https://innovationtactics.com/amazon-business-model-amazon-web-services/>

The strategic view

Amazon is often described as an **economies of scale** company that is so successful and cost-effective because they scale everything up ad infinitum (or more than others anyway). In reality, however, economies of scale don't go down asymptotically as you scale up. They reach an optimal point and then start increasing like a bathtub. If you scale beyond good utilisation you have spent Capex at low ROIC and incur unnecessarily high ongoing maintenance costs.

Thus, economies of scale require a thoughtful management, a healthy growth of new customer (to cater for churn and then some), useful functionality for existing customer so they expand their solution, cost management tools, incentives to achieve optimal utilisation and more.

QUESTION 115

Which options does AWS make available for customers who want to learn about security in the cloud in an instructor-led setting? (Choose two.)

- A. AWS Trusted Advisor
- B. AWS Online Tech Talks
- C. AWS Blog
- D. AWS Forums
- E. AWS Classroom Training

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

VCEup

QUESTION 116

Which of the following allows AWS users to manage cost allocations for billing?

- A. Tagging resources
- B. Limiting who can create resources
- C. Adding a secondary payment method
- D. Running all operations on a single AWS account

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 117

Which service can be used to monitor and receive alerts for AWS account root user AWS Management Console sign-in events?

- A. Amazon CloudWatch
- B. AWS Config
- C. AWS Trusted Advisor
- D. AWS IAM

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/mt/monitor-and-notify-on-aws-account-root-user-activity/>

QUESTION 118

Which of the following is an AWS Cloud architecture design principle?

- A. Implement single points of failure.
- B. Implement loose coupling.
- C. Implement monolithic design.
- D. Implement vertical scaling.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Loose coupling between services can also be done through asynchronous integration. It involves one component that generates events and another that consumes them. The two components do not integrate through direct point-to-point interaction, but usually through an intermediate durable storage layer. This approach decouples the two components and introduces additional resiliency. So, for example, if a process that is reading messages from the queue fails, messages can still be added to the queue to be processed when the system recovers.

Reference: <https://www.botmetric.com/blog/aws-cloud-architecture-design-principles/>

QUESTION 119

Which of the following is a shared control between the customer and AWS?

- A. Providing a key for Amazon S3 client-side encryption
- B. Configuration of an Amazon EC2 instance
- C. Environmental controls of physical AWS data centers
- D. Awareness and training

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 120

A user wants to move legacy applications to the AWS Cloud to reduce the total cost.

Which option is the MOST cost-effective according to best practices?

- A. Rewrite the legacy applications in an open-source language, such as Python.
- B. Right-size the Amazon EC2 instances to prevent over-provisioning in terms of compute and memory.
- C. Migrate relational databases to Amazon DynamoDB.
- D. Reserve a data center facility with an upfront payment, which provides an additional discount.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 121

A security officer wants to enable IPsec communications to securely connect users from on-premises networks to AWS.

Which AWS service or feature should the officer use?

- A. Amazon VPC
- B. AWS VPN
- C. AWS Direct Connect
- D. Amazon Connect

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/vpn/faqs/>

QUESTION 122

A company has refined its workload to use specific AWS services to improve efficiency and reduce cost.

Which best practice for cost governance does this example show?

- A. Resource controls
- B. Cost allocation
- C. Architecture optimization
- D. Tagging enforcement

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://d1.awsstatic.com/whitepapers/architecture/AWS-Cost-Optimization-Pillar.pdf>

QUESTION 123

What is an example of agility in the AWS Cloud?

- A. Access to multiple instance types
- B. Access to managed services
- C. Using Consolidated Billing to produce one bill
- D. Decreased acquisition time for new compute resources

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/enterprise-strategy/risk-is-lack-of-agility/>

QUESTION 124

Which AWS IAM feature is used to associate a set of permissions with multiple users?

- A. Multi-factor authentication
- B. Groups
- C. Password policies
- D. Access keys

Correct Answer: B

Section: (none)

Explanation



Explanation/Reference:

Explanation:
An IAM group is a collection of IAM users. You can use groups to specify permissions for a collection of users, which can make those permissions easier to manage for those users. For example, you could have a group called Admins and give that group the types of permissions that administrators typically need. Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/id.html>

QUESTION 125

Which load balancer types are available with Elastic Load Balancing (ELB)? (Choose two.)

- A. Public load balancers with AWS Application Auto Scaling capabilities
- B. F5 Big-IP and Citrix NetScaler load balancers
- C. Classic Load Balancers
- D. Cross-zone load balancers with public and private IPs
- E. Application Load Balancers

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Elastic Load Balancing supports the following types of load balancers: Application Load Balancers, Network Load Balancers, and Classic Load Balancers. Amazon ECS services can use either type of load balancer. Application Load Balancers are used to route HTTP/HTTPS (or Layer 7) traffic. Network Load Balancers and Classic Load Balancers are used to route TCP (or Layer 4) traffic.
Reference: <https://docs.aws.amazon.com/AmazonECS/latest/developerguide/load-balancer-types.html>

QUESTION 126

Which AWS services are defined as global instead of regional? (Choose two.)

- A. Amazon Route 53
- B. Amazon EC2
- C. Amazon S3
- D. Amazon CloudFront
- E. Amazon DynamoDB

VCEup

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <http://jayendrapatil.com/aws-global-vs-regional-vs-az-resources/>

AWS Global, Regional, AZ resource Availability

AWS provides a lot of services and these services are either Global, Regional or specific to the Availability Zone and cannot be accessed outside. Most of the AWS managed services are regional based services (except for IAM, Route53, CloudFront, WAF etc).

QUESTION 127

Under the AWS shared responsibility model, which task is the customer's responsibility when managing AWS Lambda functions?

- A. Creating versions of Lambda functions
- B. Maintaining server and operating systems
- C. Scaling Lambda resources according to demand

D. Updating the Lambda runtime environment

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 128

Under the shared responsibility model, which of the following tasks are the responsibility of the customer? (Choose two.)

- A. Maintaining the underlying Amazon EC2 hardware.
- B. Managing the VPC network access control lists.
- C. Encrypting data in transit and at rest.
- D. Replacing failed hard disk drives.
- E. Deploying hardware in different Availability Zones.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The hardware related jobs is the prime responsibility of AWS. VPC network access control lists is something a customer has to do himself to secure the applications. Encrypting data in transit and at rest is a shared responsibility in which AWS plays a part. All hardware related jobs have nothing to do with the customer.

Reference: <https://dzone.com/articles/aws-shared-responsibility-model-cloud-security>

QUESTION 129

Distributing workloads across multiple Availability Zones supports which cloud architecture design principle?

- A. Implement automation.
- B. Design for agility.
- C. Design for failure.
- D. Implement elasticity.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 130

According to the AWS shared responsibility model, who is responsible for the virtualization layer down to the physical security of the facilities in which AWS services operate?

- A. It is the sole responsibility of the customer.
- B. It is the sole responsibility of AWS.
- C. It is a shared responsibility between AWS and the customer.
- D. The customer's AWS Support plan tier determines who manages the configuration.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Security and Compliance is a shared responsibility between AWS and the customer. This shared model can help relieve the customer's operational burden as AWS operates, manages and controls the components from the host operating system and virtualization layer down to the physical security of the facilities in which the service operates.

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 131

Which AWS managed service can be used to distribute traffic between one or more Amazon EC2 instances?

- A. NAT gateway
- B. Elastic Load Balancing
- C. Amazon Athena
- D. AWS PrivateLink

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 132

Which of the following are advantages of using AWS for cloud computing? (Choose two.)

- A. Users can increase speed and agility by deploying services with just one click.
- B. Users receive a discount on hardware that they purchase for their data centers.
- C. Users can reserve excess capacity to ensure that resources are always available.
- D. Users trade variable expenses for capital expenses.
- E. Users benefit from massive economies of scale.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

Trade capital expense for variable expense – Instead of having to invest heavily in data centers and servers before you know how you're going to use them, you can pay only when you consume computing resources, and pay only for how much you consume.

Benefit from massive economies of scale – By using cloud computing, you can achieve a lower variable cost than you can get on your own. Because usage from hundreds of thousands of customers is aggregated in the cloud, providers such as AWS can achieve higher economies of scale, which translates into lower pay-as-you-go prices.

Stop guessing capacity – Eliminate guessing on your infrastructure capacity needs. When you make a capacity decision prior to deploying an application, you often end up either sitting on expensive idle resources or dealing with limited capacity. With cloud computing, these problems go away. You can access as much or as little capacity as you need, and scale up and down as required with only a few minutes' notice.

Increase speed and agility – In a cloud computing environment, new IT resources are only a click away, which means that you reduce the time to make those resources available to your developers from weeks to just minutes. This results in a dramatic increase in agility for the organization, since the cost and time it takes to experiment and develop is significantly lower.

Stop spending money running and maintaining data centers – Focus on projects that differentiate your business, not the infrastructure. Cloud computing lets you focus on your own customers, rather than on the heavy lifting of racking, stacking, and powering servers.

Go global in minutes – Easily deploy your application in multiple regions around the world with just a few clicks. This means you can provide lower latency and a better experience for your customers at minimal cost.

VCEup

QUESTION 133

A cloud practitioner has a data analysis workload that is infrequently executed and can be interrupted without harm. To optimize for cost, which Amazon EC2 purchasing option should be used?

- A. On-Demand Instances
- B. Reserved Instances
- C. Spot Instances
- D. Dedicated Hosts

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/>

QUESTION 134

A company must store critical business data in Amazon S3 with a backup to another AWS Region. How can this be achieved?

- A. Use an Amazon CloudFront Content Delivery Network (CDN) to cache data globally
- B. Set up Amazon S3 cross-region replication to another AWS Region
- C. Configure the AWS Backup service to back up to the data to another AWS Region
- D. Take Amazon S3 bucket snapshots and copy that data to another AWS Region

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 135**

Which Amazon VPC feature enables users to capture information about the IP traffic that reaches Amazon EC2 instances?

- A. Security groups
- B. Elastic network interfaces
- C. Network ACLs
- D. VPC Flow Logs

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

VPC Flow Logs is a feature that enables you to capture information about the IP traffic going to and from network interfaces in your VPC. Flow log data can be published to Amazon CloudWatch Logs or Amazon S3. After you've created a flow log, you can retrieve and view its data in the chosen destination. Reference:
<https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs.html>

QUESTION 136

Which of the following contribute to total cost of ownership of a workload running in the AWS Cloud? (Choose two.)

- A. Hardware maintenance
- B. Power and cooling
- C. Storage costs
- D. Space for data center

E. Network costs

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.slideshare.net/AmazonWebServices/optimizing-total-cost-of-ownership-for-the-aws-cloud-36852296>

QUESTION 137

Which AWS service would you use to obtain compliance reports and certificates?

- A. AWS Artifact
- B. AWS Lambda
- C. Amazon Inspector
- D. AWS Certificate Manager

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and select online agreements. Reports available in AWS Artifact include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) reports, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls. Agreements available in AWS Artifact include the Business Associate Addendum (BAA) and the Nondisclosure Agreement (NDA).

Reference: <https://aws.amazon.com/artifact/>

QUESTION 138

Which of the following allows users to provision a dedicated network connection from their internal network to AWS?

- A. AWS CloudHSM
- B. AWS Direct Connect
- C. AWS VPN
- D. Amazon Connect

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Direct Connect lets you establish a dedicated network connection between your network and one of the AWS Direct Connect locations. Using industry standard 802.1q VLANs, this dedicated connection can be partitioned into multiple virtual interfaces. This allows you to use the same connection to access public resources such as objects stored in Amazon S3 using public IP address space, and private resources such as Amazon EC2 instances running within an Amazon Virtual Private Cloud (VPC) using private IP space, while maintaining network separation between the public and private environments. Virtual interfaces can be reconfigured at any time to meet your changing needs. Reference: <https://aws.amazon.com/directconnect/>

QUESTION 139

Which services manage and automate application deployments on AWS? (Choose two.)

- A. AWS Elastic Beanstalk
- B. AWS CodeCommit
- C. AWS Data Pipeline
- D. AWS CloudFormation
- E. AWS Config

Correct Answer: AD

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/deploying.applications.html>

You can use AWS CloudFormation to automatically install, configure, and start applications on Amazon EC2 instances. Doing so enables you to easily duplicate deployments and update existing installations without connecting directly to the instance, which can save you a lot of time and effort.

CloudFormation includes a set of helper scripts (cfn-init, cfn-signal, cfn-get-metadata, and cfn-hup) that are based on cloud-init. You call these helper scripts from your CloudFormation templates to install, configure, and update applications on Amazon EC2 instances that are in the same template.

The following walkthrough describes how to create a template that launches a LAMP stack by using cfn helper scripts to install, configure, and start Apache, MySQL, and PHP. You'll start with a simple template that sets up a basic Amazon EC2 instance running Amazon Linux, and then continue adding to the template until it describes a full LAMP stack.

For additional strategies and examples about deploying applications with CloudFormation, see the [Bootstrapping applications via AWS CloudFormation](#) article.

QUESTION 140

What are the advantages of Reserved Instances? (Choose two.)

- A. They provide a discount over on-demand pricing.
- B. They provide access to additional instance types.
- C. They provide additional networking capability.
- D. Customers can upgrade instances as new types become available.
- E. Customers can reserve capacity in an Availability Zone.

Correct Answer: AE**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/ec2-ri-basics/>

An Amazon Reserved Instance (RI) is a billing discount that allows you to save on your Amazon EC2 usage costs. When you purchase a Reserved Instance, you can set attributes such as instance type, platform, tenancy, Region, or Availability Zone (optional). Any existing or new On-Demand Instances matching the selected attributes are charged at the discounted Reserved Instance price. Reserved Instances act as an automatic discount on new or existing On-Demand Instances in your account.

Note: Because a Reserved Instance is a billing discount, it doesn't affect the running of any existing instances.

The Reserved Instance doesn't provide a discount until you launch an instance with the required specifications.

You receive discounts or capacity reservations depending on which RI you choose:

- Regional Reserved Instances provide a pricing discount that helps you save money. Regional RIs apply a discount to On-Demand Instances you run in a particular Region.
- Zonal Reserved Instances allow you to create a capacity reservation for an instance type within a specific Availability Zone. Zonal RIs also provide substantial discounts over On-Demand Pricing.

QUESTION 141

A company is considering a move to the AWS Cloud. The company wants to be able to scale its compute resources as needed to accommodate changing loads. Which benefit of the AWS Cloud does this scenario describe?

- A. Global deployments in minutes
- B. Cost savings
- C. Agility
- D. Elasticity

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 142

Which AWS Support plan provides access to architectural and operational reviews, as well as 24/7 access to Senior Cloud Support Engineers through email, online chat, and phone?

- A. Basic
- B. Business
- C. Developer
- D. Enterprise

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/enterprise/>

QUESTION 143

Web servers running on Amazon EC2 access a legacy application running in a corporate data center.

What term would describe this model?

- A. Cloud-native
- B. Partner network
- C. Hybrid architecture
- D. Infrastructure as a service

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/enterprise/hybrid/>

QUESTION 144

Which AWS Cloud service can send alerts to customers if custom spending thresholds are exceeded?

- A. AWS Budgets
- B. AWS Cost Explorer
- C. AWS Cost Allocation Tags
- D. AWS Organizations

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:



QUESTION 145

Which of the following are user authentication services managed by AWS? (Choose two.)

- A. Amazon Cognito
- B. AWS Lambda
- C. AWS License Manager
- D. AWS Identity and Access Management (IAM)
- E. AWS CodeStar

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/cognito/>
https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html

QUESTION 146

A bank needs to store recordings of calls made to its contact center for 6 years. The recordings must be accessible within 48 hours from the time they are requested.

Which AWS service will provide a secure and cost-effective solution for retaining these files?

- A. Amazon DynamoDB
- B. Amazon S3 Glacier
- C. Amazon Connect
- D. Amazon ElastiCache

Correct Answer: C

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/connect/latest/adminguide/set-up-recordings.html>

QUESTION 147

Which of the following is a component of the shared responsibility model managed entirely by AWS?

- A. Patching operating system software
- B. Encrypting data
- C. Enforcing multi-factor authentication
- D. Auditing physical data center assets

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Of course, Amazon is responsible for auditing physical data center assets and resources since it is the property of Amazon Inc. Customers have no access to physical sites, hence they are not responsible for maintaining physical data center assets.

QUESTION 148

Service control policies (SCPs) manage permissions for which of the following?

- A. Availability Zones
- B. AWS Regions

- C. AWS Organizations
- D. Edge locations

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps.html

QUESTION 149

How can the AWS Cloud increase user workforce productivity after migration from an on-premises data center?

- A. Users do not have to wait for infrastructure provisioning.
- B. The AWS Cloud infrastructure is much faster than an on-premises data center infrastructure.
- C. AWS takes over application configuration management on behalf of users.
- D. Users do not need to address security and compliance issues.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://d1.awsstatic.com/whitepapers/Migration/aws-migration-whitepaper.pdf>

QUESTION 150

A company wants to monitor the CPU usage of its Amazon EC2 resources.

Which AWS service should the company use?

- A. AWS CloudTrail
- B. Amazon CloudWatch
- C. AWS Cost and Usage report
- D. Amazon Simple Notification Service (Amazon SNS)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

With Basic monitoring you get data on your cloudwatch metrics every 5 minutes. Enabling detailed monitoring, you will get the data every one minute.

To check if detailed monitoring is enabled, on your EC2 Console, Select the instance, on the lower pane, Select Monitoring.

Reference: <https://forums.aws.amazon.com/thread.jspa?threadID=263876>

QUESTION 151

A company is planning to host a large ecommerce application in the AWS Cloud. The company must create an architecture that provides protection against network-based security issues, such as DDoS attacks. Which AWS services should the company use to meet this requirement? (Choose two.)

- A. Amazon Inspector
- B. Amazon GuardDuty
- C. Amazon CloudFront
- D. AWS Shield
- E. AWS Identity and Access Management (IAM)

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS WAF is a web application firewall that can be deployed on CloudFront to help protect your application against DDoS attacks by giving you control over which traffic to allow or block by defining security rules.

Set up your DDoS protection on AWS

All AWS customers benefit from the automatic protections of AWS Shield Standard, at no additional charge.

Reference: <https://aws.amazon.com/blogs/security/how-to-protect-dynamic-web-applications-against-ddos-attacks-by-usingamazon-cloudfront-and-amazon-route-53/> <https://aws.amazon.com/shield/ddos-attack-protection/>

QUESTION 152

A company is looking for a scalable data warehouse solution.

Which of the following AWS solutions would meet the company's needs?

- A. Amazon Simple Storage Service (Amazon S3)
- B. Amazon DynamoDB
- C. Amazon Kinesis
- D. Amazon Redshift

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/redshift/>

**QUESTION 153**

What is a benefit of loose coupling as a principle of cloud architecture design?

- A. It facilitates low-latency request handling.
- B. It allows applications to have dependent workflows.
- C. It prevents cascading failures between different components.
- D. It allows companies to focus on their physical data center operations.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

IT systems should ideally be designed in a way that reduces inter-dependencies. Your components need to be loosely coupled to avoid changes or failure in one of the components from affecting others.

Your infrastructure also needs to have well defined interfaces that allow the various components to interact with each other only through specific, technology-agnostic interfaces. Modifying any underlying operations without affecting other components should be made possible.

Reference: <https://www.botmetric.com/blog/aws-cloud-architecture-design-principles/>

QUESTION 154

Which AWS service or feature is designed to help companies take advantage of quantity discounts available from AWS?

- A. Saving Plans
- B. AWS Budgets
- C. AWS Organizations
- D. AWS Pricing Calculator

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/organizations/>

AWS Organizations helps you centrally manage and govern your environment as you grow and scale your AWS resources. Using AWS Organizations, you can programmatically create new AWS accounts and allocate resources, group accounts to organize your workflows, apply policies to accounts or groups for governance, and simplify billing by using a single payment method for all of your accounts.

In addition, AWS Organizations is integrated with other AWS services so you can define central configurations, security mechanisms, audit requirements, and resource sharing across accounts in your organization. AWS Organizations is available to all AWS customers at no additional charge.

QUESTION 155

Which AWS service can help a company detect an outage of its website servers and redirect users to alternate servers?

- A. Amazon CloudFront
- B. Amazon GuardDuty
- C. Amazon Route 53
- D. AWS Trusted Advisor

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/about-aws/whats-new/2013/02/11/announcing-dns-failover-for-route-53/>

QUESTION 156

Which AWS service can serve a static website?

- A. Amazon S3
- B. Amazon Route 53
- C. Amazon QuickSight
- D. AWS X-Ray

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

You can host a static website on Amazon Simple Storage Service (Amazon S3). On a static website, individual webpages include static content. They might also contain client-side scripts. By contrast, a dynamic website relies on server-

side processing, including server-side scripts such as PHP, JSP, or ASP.NET. Amazon S3 does not support server-side scripting.
Reference: <https://docs.aws.amazon.com/AmazonS3/latest/dev/WebsiteHosting.html>

QUESTION 157

How can a user protect against AWS service disruptions if a natural disaster affects an entire geographic area?

- A. Deploy applications across multiple Availability Zones within an AWS Region.
- B. Use a hybrid cloud computing deployment model within the geographic area.
- C. Deploy applications across multiple AWS Regions.
- D. Store application artifacts using AWS Artifact and replicate them across multiple AWS Regions.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

An AWS Region is a geographic location where AWS provides multiple, physically separated and isolated Availability Zones which are connected with low latency, high throughput, and highly redundant networking.
Reference: <https://aws.amazon.com/s3/faqs/>

QUESTION 158

Each department within a company has its own independent AWS account and its own payment method. New company leadership wants to centralize departmental governance and consolidate payments. How can this be achieved using AWS services or features?

- A. Forward monthly invoices for each account. Then create IAM roles to allow cross-account access.
- B. Create a new AWS account. Then configure AWS Organizations and invite all existing accounts to join.
- C. Configure AWS Organizations in each of the existing accounts. Then link all accounts together.
- D. Use Cost Explorer to combine costs from all accounts. Then replicate IAM policies across accounts.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_accounts.html

QUESTION 159

Which AWS feature will reduce the customer's total cost of ownership (TCO)?

- A. Shared responsibility security model
- B. Single tenancy
- C. Elastic computing
- D. Encryption

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 160

Which AWS service offers on-demand access to AWS security and compliance reports?

- A. AWS CloudTrail
- B. AWS Artifact
- C. AWS Health
- D. Amazon CloudWatch

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and select online agreements. Reports available in AWS Artifact include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) reports, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls. Agreements available in AWS Artifact include the Business Associate Addendum (BAA) and the Nondisclosure Agreement (NDA).
Reference: <https://aws.amazon.com/artifact/>

QUESTION 161

Which Amazon Virtual Private Cloud (Amazon VPC) feature enables users to connect two VPCs together?

- A. Amazon VPC endpoints
- B. Amazon Elastic Compute Cloud (Amazon EC2) ClassicLink
- C. Amazon VPC peering
- D. AWS Direct Connect

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
A VPC peering connection is a networking connection between two VPCs that enables you to route traffic between them using private IPv4 addresses or IPv6 addresses. Instances in either VPC can communicate with each other as if they are within the same network. You can create a VPC peering connection between your own VPCs, or with a VPC in another AWS account. The VPCs can be in different regions (also known as an inter-region VPC peering connection).
Reference: <https://docs.aws.amazon.com/vpc/latest/peering/what-is-vpc-peering.html>

QUESTION 162

A startup is working on a new application that needs to go to market quickly. The application requirements may need to be adjusted in the near future.
Which of the following is a characteristic of the AWS Cloud that would meet this specific need?

- A. Elasticity
- B. Reliability
- C. Performance
- D. Agility

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Agile is a time boxed, iterative approach to software delivery that builds software incrementally from the start of the project, instead of trying to deliver it all at once near the end. Reference: <http://www.agilenutshell.com>

QUESTION 163

A large company has a workload that requires hardware to remain on premises. The company wants to use the same management and control plane services that it currently uses on AWS.
Which AWS service should the company use to meet these requirements?

- A. AWS Device Farm
- B. AWS Fargate
- C. AWS Outposts
- D. AWS Ground Station

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/outposts/>**AWS Outposts Family overview**

AWS Outposts is a family of fully managed solutions delivering AWS infrastructure and services to virtually any on-premises or edge location for a truly consistent hybrid experience. Outposts solutions allow customers to extend and run native AWS services on premises, and is available in a variety of form factors, from 1U and 2U Outposts servers to 42U Outposts racks, and multiple rack deployments.

With AWS Outposts, you can run some AWS services locally and connect to a broad range of services available in the local AWS Region. Run applications and workloads on premises using familiar AWS services, tools, and APIs. Outposts support workloads and devices requiring low latency access to on-premises systems, local data processing, data residency, and application migration with local system interdependencies.

Benefits

Run AWS Services on premises	Fully managed infrastructure	Truly consistent hybrid experience
Extend AWS compute, networking, security, and other services on premises for low latency, local data processing, and data residency needs.	Reduce the time, resources, operational risk, and maintenance downtime required to manage IT infrastructure with a fully managed experience.	Use the same hardware infrastructure, APIs, tools, and management controls available in the cloud to provide a truly consistent developer and IT operations experience.

QUESTION 164

What are the benefits of using the AWS Cloud for companies with customers in many countries around the world? (Choose two.)

- A. Companies can deploy applications in multiple AWS Regions to reduce latency.
- B. Amazon Translate automatically translates third-party website interfaces into multiple languages.
- C. Amazon CloudFront has multiple edge locations around the world to reduce latency.
- D. Amazon Comprehend allows users to build applications that can respond to user requests in many languages.
- E. Elastic Load Balancing can distribute application web traffic to multiple AWS Regions around the world, which reduces latency.

Correct Answer: AC**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/comprehend/features/> <https://aws.amazon.com/cloudfront/>**QUESTION 165**

A company needs to migrate its on-premises data to the AWS Cloud. The company requires elastic, highly optimized connectivity. Which AWS service meets these requirements?

- A. Amazon S3 Glacier
- B. AWS Storage Gateway
- C. AWS Backup
- D. Amazon Elastic File System (Amazon EFS)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/storagegateway/faqs/>

QUESTION 166

A company is migrating its on-premises data center to AWS and wants to provide NFS access to its Linux clients.

Which AWS service should the company use?

- A. Amazon S3
- B. Amazon Elastic File System (Amazon EFS)
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon S3 Glacier

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/storage/transferring-files-from-on-premises-to-aws-and-back-without-leaving-yourvpc-using-aws-datasync/>

QUESTION 167

Which AWS service or feature requires an internet service provider (ISP) and a colocation facility to be implemented?

- A. AWS VPN
- B. Amazon Connect
- C. AWS Direct Connect
- D. Internet gateway

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/directconnect/partners/>

QUESTION 168

Which design principles for cloud architecture are recommended when re-architecting a large monolithic application?

(Choose two.)

- A. Use manual monitoring.
- B. Use fixed servers.
- C. Implement loose coupling.
- D. Rely on individual components.
- E. Design for scalability.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Rearchitecting applications involves sweeping change where an old monolithic application is completely revamped according to modern microservices architecture. Using individual components to rearchitect a big application is one part of the process.

The most important part is to design the application for scalability because the level of investment for a monolithic application can only be justified when resilience and scalability is needed.

Reference: <https://www.architech.ca/re-architect-applications/>



QUESTION 169

A company wants to increase its ability to recover its infrastructure in the case of a natural disaster. Which pillar of the AWS Well-Architected Framework does this ability represent?

- A. Cost optimization
- B. Performance efficiency
- C. Reliability
- D. Security

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/wellarchitected/latest/reliability-pillar/wellarchitected-reliability-pillar.pdf>

QUESTION 170

A company is considering migrating its applications to AWS. The company wants to compare the cost of running the workload on-premises to running the equivalent workload on the AWS platform. Which tool can be used to perform this comparison?

- A. AWS Simple Monthly Calculator
- B. AWS Total Cost of Ownership (TCO) Calculator
- C. AWS Billing and Cost Management console
- D. Cost Explorer

Correct Answer: B

Section: (none)

Explanation

**Explanation/Reference:**

Explanation:

TCO calculator compare the cost of running your applications in an on-premises or colocation environment to AWS.

Reference: <https://awstcoccalculator.com>

QUESTION 171

A company wants to rightscale its infrastructure to control costs.

At which points should the company rightscale? (Choose two.)

- A. Rightscale before a migration occurs to the cloud.
- B. Rightscale continuously after the cloud onboarding process.
- C. Rightscale when AWS Support calls and explains that rightsizing is needed.
- D. Rightscale when seasonal workloads are at their peak.
- E. Rightscale after purchasing all Reserved Instances.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-right-sizing/tips-for-right-sizing-yourworkloads.html>

QUESTION 172

Which AWS services may be scaled using AWS Auto Scaling? (Choose two.)

- A. Amazon EC2
- B. Amazon DynamoDB

- C. Amazon S3
- D. Amazon Route 53
- E. Amazon Redshift

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/autoscaling/faqs/>

QUESTION 173

To use the AWS CLI, users are required to generate:

- A. a password policy.
- B. an access/secret key.
- C. a managed policy.
- D. an API key.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 174

A user has limited knowledge of AWS services, but wants to quickly deploy a scalable Node.js application in the AWS Cloud.

Which service should be used to deploy the application?

- A. AWS CloudFormation
- B. AWS Elastic Beanstalk
- C. Amazon EC2
- D. AWS OpsWorks

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/elasticbeanstalk/>

QUESTION 175

Which security-related task is the responsibility of the customer in the AWS Cloud?

- A. Securing infrastructure at data centers
- B. Maintaining firewall configurations at a hardware level
- C. Maintaining networking among hardware components
- D. Maintaining server-side encryption

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.missioncloud.com/blog/aws-security-make-sure-your-share-the-responsibility>

QUESTION 176

Which element of the AWS global infrastructure consists of one or more discrete data centers, each with redundant power, networking, and connectivity, which are housed in separate facilities?

- A. AWS Regions
- B. Availability Zones
- C. Edge locations
- D. Amazon CloudFront

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/global-infrastructure.html>

The AWS Cloud infrastructure is built around AWS Regions and Availability Zones. An AWS Region is a physical location in the world where we have multiple Availability Zones. Availability Zones consist of one or more discrete data centers, each with redundant power, networking, and connectivity, housed in separate facilities. These Availability Zones offer you the ability to operate production applications and databases that are more highly available, fault tolerant, and scalable than would be possible from a single data center. The AWS Cloud operates in 80 Availability Zones within 25 geographic Regions around the world, with announced plans for more Availability Zones and Regions. For more information on the AWS Cloud Availability Zones and AWS Regions, see [AWS Global Infrastructure](#).

QUESTION 177

Which of the following services have Distributed Denial of Service (DDoS) mitigation features? (Choose two.)

- A. AWS WAF
- B. Amazon DynamoDB
- C. Amazon EC2
- D. Amazon CloudFront
- E. Amazon Inspector

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/shield/>

All AWS customers benefit from the automatic protections of AWS Shield Standard, at no additional charge. AWS Shield Standard defends against most common, frequently occurring network and transport layer DDoS attacks that target your web site or applications. When you use AWS Shield Standard with Amazon CloudFront and Amazon Route 53, you receive comprehensive availability protection against all known infrastructure (Layer 3 and 4) attacks.

For higher levels of protection against attacks targeting your applications running on Amazon Elastic Compute Cloud (EC2), Elastic Load Balancing (ELB), Amazon CloudFront, AWS Global Accelerator and Amazon Route 53 resources, you can subscribe to AWS Shield Advanced. In addition to the network and transport layer protections that come with Standard, AWS Shield Advanced provides additional detection and mitigation against large and sophisticated DDoS attacks, near real-time visibility into attacks, and integration with AWS WAF, a web application firewall. AWS Shield Advanced also gives you 24x7 access to the AWS Shield Response Team (SRT) and protection against DDoS related spikes in your Amazon Elastic Compute Cloud (EC2), Elastic Load Balancing (ELB), Amazon CloudFront, AWS Global Accelerator and Amazon Route 53 charges.

QUESTION 178

What is AWS Trusted Advisor?

- A. It is an AWS staff member who provides recommendations and best practices on how to use AWS.
- B. It is a network of AWS partners who provide recommendations and best practices on how to use AWS.
- C. It is an online tool with a set of automated checks that provides recommendations on cost optimization, performance, and security.
- D. It is another name for AWS Technical Account Managers who provide recommendations on cost optimization, performance, and security.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
AWS Trusted Advisor is an online tool that provides you real time guidance to help you provision your resources following AWS best practices.
Whether establishing new workflows, developing applications, or as part of ongoing improvement, take advantage of the recommendations provided by Trusted Advisor on a regular basis to help keep your solutions provisioned optimally.
Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/>

QUESTION 179

Which AWS service provides a simple way to set up a new multi-account AWS environment and govern it at scale?

- A. AWS Trusted Advisor
- B. AWS Security Hub
- C. AWS Control Tower
- D. AWS Resource Access Manager

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/about-aws/whats-new/2020/04/you-can-now-use-aws-control-tower-to-set-up-new-multiaccount-aws-environments-in-aws-organizations/>

AWS Control Tower is a service for organizations with multiple accounts and teams who are looking for the easiest way to set up their new or existing multi-account AWS environment and govern at scale. With AWS Control Tower, cloud administrators get peace of mind knowing accounts in their organization are compliant with their established policies. Builders benefit from being able to provision new AWS accounts quickly.

It's easy to get started. From the AWS Control Tower console, select 'Set up landing zone' in the top right. You can read more in the [documentation on AWS Control Tower support for Organizations](#), watch [this video on how to get started with AWS Control Tower for AWS Organizations](#), or visit the [AWS Control Tower product webpage](#).



QUESTION 180

What AWS billing support resource is available to all support levels?

- A. AWS Support concierge
- B. AWS Customer Service
- C. AWS technical account manager
- D. AWS Business Support

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/premiumsupport/plans/>

Basic Support is included for all AWS customers and includes:

- Customer Service and Communities - 24x7 access to customer service, documentation, whitepapers, and AWS re:Post.
- AWS Trusted Advisor - Access to core Trusted Advisor checks and guidance to provision your resources following best practices to increase performance and improve security.
- AWS Personal Health Dashboard - A personalized view of the health of AWS services, and alerts when your resources are impacted.

QUESTION 181

An ecommerce company wants to design a highly available application that will be hosted on multiple Amazon EC2 instances. How should the company deploy the EC2 instances to meet these requirements?

- A. Across multiple edge locations
- B. Across multiple VPCs
- C. Across multiple Availability Zones
- D. Across multiple AWS accounts

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Consider the availability of multiple data centers

Reference: <https://docs.aws.amazon.com/whitepapers/latest/web-application-hosting-best-practices/web-application-hostingbest-practices.pdf>

QUESTION 182

Which Amazon RDS feature can be used to achieve high availability?

- A. Multiple Availability Zones
- B. Amazon Reserved Instances
- C. Provisioned IOPS storage
- D. Enhanced monitoring

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon RDS provides high availability and failover support for DB instances using Multi-AZ deployments. Amazon RDS uses several different technologies to provide failover support. Multi-AZ deployments for Oracle, PostgreSQL, MySQL, and MariaDB DB instances use Amazon's failover technology. SQL Server DB instances use SQL Server Database Mirroring (DBM).

Reference: <https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZ.html>

QUESTION 183

A company wants to eliminate the need to guess infrastructure capacity before deployments. The company also wants to spend its budget on cloud resources only as the company uses the resources. Which advantage of the AWS Cloud matches the company's requirements?

- A. Reliability
- B. Global reach
- C. Economies of scale
- D. Pay-as-you-go pricing

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 184

A company has multiple AWS accounts within AWS Organizations and wants to apply the Amazon EC2 Reserved Instances benefit to a single account only. Which action should be taken?

- A. Purchase the Reserved Instances from master payer account and turn off Reserved Instance sharing.
- B. Enable billing alerts in the AWS Billing and Cost Management console.
- C. Purchase the Reserved Instances in individual linked accounts and turn off Reserved Instance sharing from the payer level.
- D. Enable Reserved Instance sharing in the AWS Billing and Cost Management console.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/ec2-ri-consolidated-billing/>

If RI sharing is turned off for an account in an organization, then:

- RI discounts apply only to the account that purchased the RIs.
- RI discounts from other accounts in the organization's consolidated billing family don't apply.
- The charges accrued on that account are still added to the organization's consolidated bill and are paid by the management account.

QUESTION 185

Which Amazon EC2 pricing model should be used to comply with per-core software license requirements?

- A. Dedicated Hosts
- B. On-Demand Instances
- C. Spot Instances
- D. Reserved Instances

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/dedicated-hosts/pricing/>

The price for a Dedicated Host varies by instance family, region, and payment option.

Regardless of the quantity or the size of instances that you choose to launch on a particular Dedicated Host you only pay for each active Dedicated Host.

When you allocate a Dedicated Host for use, you pick an instance family such as RS or MS for the host. After you have allocated a host, you will pay On-Demand unless you have a Dedicated Host Reservation or Savings Plans. A Dedicated Host Reservation provides you with a discount of up to 70% compared to On-Demand pricing. Savings Plans, a new flexible pricing model will help you lower your bill by making a commitment to a consistent amount of compute usage (measured in \$/hour) instead of making commitments to specific hosts. Savings Plans offer significant savings over On Demand, just like Reservations, but automatically reduce your bills on compute usage across any AWS region, even as usage changes.

QUESTION 186

Which of the following is an AWS managed Domain Name System (DNS) web service?

- A. Amazon Route 53

- B. Amazon Neptune
- C. Amazon SageMaker
- D. Amazon Lightsail

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/getting-started/tutorials/get-a-domain/>

QUESTION 187

A company is using Amazon EC2 Auto Scaling to scale its Amazon EC2 instances.

Which benefit of the AWS Cloud does this example illustrate?

- A. High availability
- B. Elasticity
- C. Reliability
- D. Global reach

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 188

Which tasks require using AWS account root user credentials? (Choose two.)

- A. Creating an Amazon EC2 key pair
- B. Removing an IAM user from the administrators group
- C. Changing the AWS Support plan
- D. Creating an Amazon CloudFront key pair
- E. Granting an IAM user full administrative access

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/general/latest/gr/root-vs-iam.html>

QUESTION 189

Where are AWS compliance documents, such as an SOC 1 report, located?

- A. Amazon Inspector
- B. AWS CloudTrail
- C. AWS Artifact
- D. AWS Certificate Manager

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/soc-faqs/>

QUESTION 190

A user is planning to launch two additional Amazon EC2 instances to increase availability.
Which action should the user take?

- A. Launch the instances across multiple Availability Zones in a single AWS Region.
- B. Launch the instances as EC2 Reserved Instances in the same AWS Region and the same Availability Zone.
- C. Launch the instances in multiple AWS Regions, but in the same Availability Zone.
- D. Launch the instances as EC2 Spot Instances in the same AWS Region, but in different Availability Zones.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 191

Which of the following are benefits of using the AWS Cloud? (Choose two.)

- A. 100% fault tolerance
- B. Total control over underlying infrastructure
- C. Fast provisioning of IT resources
- D. Outsourcing all application coding to AWS
- E. Ability to go global quickly

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 192

A company has multiple AWS accounts and wants to simplify and consolidate its billing process.

Which AWS service will achieve this?

- A. AWS Cost and Usage Reports
- B. AWS Organizations
- C. AWS Cost Explorer
- D. AWS Budgets

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

You can use the consolidated billing feature in AWS Organizations to consolidate billing and payment for multiple AWS accounts or multiple Amazon Internet Services Pvt. Ltd (AISPL) accounts. Every organization in AWS Organizations has a master (payer) account that pays the charges of all the member (linked) accounts.

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>

QUESTION 193

When a user wants to utilize their existing per-socket, per-core, or per-virtual machine software licenses for a Microsoft Windows server running on AWS, which Amazon EC2 instance type is required?

- A. Spot Instances
- B. Dedicated Instances
- C. Dedicated Hosts

D. Reserved Instances

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/dedicated-hosts-overview.html>

Dedicated Hosts

[PDF](#) | [Kindle](#) | [RSS](#)

An Amazon EC2 Dedicated Host is a physical server with EC2 instance capacity fully dedicated to your use. Dedicated Hosts allow you to use your existing per-socket, per-core, or per-VM software licenses, including Windows Server, Microsoft SQL Server, SUSE, and Linux Enterprise Server.

For information about the configurations supported on Dedicated Hosts, see [Dedicated Hosts Configuration](#).

QUESTION 194

Which AWS service will allow a user to set custom cost and usage limits, and will alert when the thresholds are exceeded?

- A. AWS Organizations
- B. AWS Budgets
- C. Cost Explorer
- D. AWS Trusted Advisor

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/getting-started/hands-on/control-your-costs-free-tier-budgets/>

QUESTION 195

A company wants to ensure that two Amazon EC2 instances are in separate data centers with minimal communication latency between the data centers. How can the company meet this requirement?

- A. Place the EC2 instances in two separate AWS Regions connected with a VPC peering connection.
- B. Place the EC2 instances in two separate Availability Zones within the same AWS Region.
- C. Place one EC2 instance on premises and the other in an AWS Region. Then connect them by using an AWS VPN connection.
- D. Place both EC2 instances in a placement group for dedicated bandwidth.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 196

Which AWS services offer compute capabilities? (Choose two.)

- A. Amazon EC2
- B. Amazon S3
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon Cognito
- E. AWS Lambda

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/compute-services.html>

QUESTION 197

Which AWS service or resource helps on-premises applications connect to AWS Cloud-based storage and caches the data locally for low-latency access?

- A. AWS Direct Connect
- B. AWS Storage Gateway
- C. Amazon S3
- D. AWS Snowball Edge

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/storagegateway/?whats-new-cards.sort-by=item.additionalFields.postDateTime&whatsnew-cards.sort-order=desc>

QUESTION 198

Which of the following security-related actions are available at no cost?

- A. Calling AWS Support
- B. Contacting AWS Professional Services to request a workshop
- C. Accessing forums, blogs, and whitepapers
- D. Attending AWS classes at a local university

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 199

A Cloud Practitioner identifies a billing issue after examining the AWS Cost and Usage report in the AWS Management Console.

Which action can be taken to resolve this?

- A. Open a detailed case related to billing and submit it to AWS Support for help.
- B. Upload data describing the issue to a new object in a private Amazon S3 bucket.
- C. Create a pricing application and deploy it to a right-sized Amazon EC2 instance for more information.
- D. Proceed with creating a new dashboard in Amazon QuickSight.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:**QUESTION 200**

Which AWS service is a relational database compatible with MySQL and PostgreSQL?

- A. Amazon Redshift
- B. Amazon DynamoDB
- C. Amazon Aurora
- D. Amazon Neptune

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: <https://aws.amazon.com/rds/aurora/?aurora-whats-new.sort-by=item.additionalFields.postDateTime&aurorawhats-new.sort-order=desc>

Amazon Aurora is a MySQL and PostgreSQL-compatible relational database built for the cloud that combines the performance and availability of traditional enterprise databases with the simplicity and cost-effectiveness of open source databases.

Amazon Aurora is up to five times faster than standard MySQL databases and three times faster than standard PostgreSQL databases. It provides the security, availability, and reliability of commercial databases at 1/10th the cost. Amazon Aurora is fully managed by Amazon Relational Database Service (RDS), which automates time-consuming administration tasks like hardware provisioning, database setup, patching, and backups.

Amazon Aurora features a distributed, fault-tolerant, self-healing storage system that auto-scales up to 128TB per database instance. It delivers high performance and availability with up to 15 low-latency read replicas, point-in-time recovery, continuous backup to Amazon S3, and replication across three Availability Zones.

Visit the Amazon RDS Management Console to create your first Aurora database instance and start migrating your MySQL and PostgreSQL databases.

QUESTION 201

How do AWS users trade infrastructure expenses for operational expenses?

- A. Secure their physical infrastructure to prevent malicious attacks.
- B. Use AWS Budgets to ensure that spending on AWS resources does not exceed preset thresholds.
- C. Eliminate the electricity costs that are associated with the hosting of physical servers.
- D. Use AWS Auto Scaling to dynamically increase and decrease compute resources as needed.

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

The service provides a simple, powerful user interface that lets you build scaling plans for resources including Amazon EC2 instances and Spot Fleets, Amazon ECS tasks, Amazon DynamoDB tables and indexes, and Amazon Aurora Replicas.

Reference: <https://aws.amazon.com/autoscaling/>

QUESTION 202

Which AWS service or tool creates an audit log of all AWS resources that have been created?

- A. Amazon CloudFront
- B. Amazon CloudWatch
- C. AWS CloudTrail

D. AWS Application Migration Service (CloudEndure Migration)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS CloudTrail, AWS Config, and AWS Config Rules provide audit and change tracking features for auditing AWS resource changes.

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/audit-accountability.html>

QUESTION 203

Which AWS service or feature is highly available by default?

- A. Amazon EC2
- B. Amazon Aurora
- C. NAT instances
- D. Amazon RDS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZ.html>

QUESTION 204

An application runs on multiple Amazon EC2 instances that access a shared file system simultaneously.

Which AWS storage service should be used?

- A. Amazon EBS
- B. Amazon EFS
- C. Amazon S3
- D. AWS Artifact

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/efs/>

QUESTION 205

Which AWS service or feature can simplify the management of hundreds of VPC connections across AWS Regions worldwide?

- A. AWS Transit Gateway
- B. Amazon Connect
- C. Security groups
- D. VPC peering

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/transit-gateway/?whats-new-cards.sort-by=item.additionalFields.postDateTime&whatsnew-cards.sort-order=desc>

Benefits of using AWS Transit Gateway

Easier connectivity	Better visibility and control	Improved security	Flexible multicast
AWS Transit Gateway acts as a cloud router to simplify your network architecture. As your network grows, the complexity of managing incremental connections doesn't slow you down. When building global applications, you can connect AWS Transit Gateways using inter-Region peering.	With AWS Transit Manager, you can easily monitor your Amazon VPCs and edge connections from a central console. Integrated with popular SD-WAN devices, AWS Transit Gateway Network Manager helps you quickly identify issues and react to events on your global network.	Traffic between an Amazon VPC and AWS Transit Gateway remains on the AWS global private network and is not exposed to the public internet. AWS Transit Gateway inter-Region peering encrypts all traffic, with no single point of failure or bandwidth bottleneck. This helps protect against distributed denial of service (DDoS) attacks and other common exploits.	AWS Transit Gateway multicast support distributes the same content to multiple specific destinations. This eliminates the need for expensive on-premises multicast networks and reduces the bandwidth needed for high-throughput applications such as video conferencing, media, or teleconferencing.

QUESTION 206

A company is looking for a way to encrypt data stored on Amazon S3. Which AWS managed service can be used to help to accomplish this?

- A. AWS Certificate Manager (ACM)
- B. AWS Secrets Manager
- C. AWS Resource Access Manager
- D. AWS Key Management Service (AWS KMS)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.nakivo.com/blog/amazon-s3-encryption-configuration-overview/>

QUESTION 207

Which of the following services is in the category of AWS serverless platform?

- A. Amazon EMR
- B. Elastic Load Balancing
- C. AWS Lambda
- D. AWS Mobile Hub

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS provides a set of fully managed services that you can use to build and run serverless applications. Serverless applications don't require provisioning, maintaining, and administering servers for backend components such as compute, databases, storage, stream processing, message queueing, and more. You also no longer need to worry about ensuring application fault tolerance and availability. Instead, AWS handles all of these capabilities for you. Serverless platform includes: AWS lambda, Amazon S3, DynamoDB, API gateway, Amazon SNS, AWS step functions, Amazon kinesis and developing tools and services.

Reference: <https://aws.amazon.com/serverless/>

QUESTION 208

A company needs 24/7 phone, email, and chat access, with a response time of less than 1 hour if a production system has a service interruption.

Which AWS Support plan meets these requirements at the LOWEST cost?

- A. Basic
- B. Developer
- C. Business
- D. Enterprise

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 209

A customer runs an On-Demand Amazon Linux EC2 instance for 3 hours, 5 minutes, and 6 seconds.

For how much time will the customer be billed?

- A. 3 hours, 5 minutes
- B. 3 hours, 5 minutes, and 6 seconds
- C. 3 hours, 6 minutes
- D. 4 hours

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/about-aws/whats-new/2017/10/announcing-amazon-ec2-per-second-billing/>

Today, customers may have use cases that require large number of instances running for irregular periods of time, such as dev/test, data processing, analytics, batch processing, image rendering and gaming applications. To improve flexibility and allow customers to focus on their application instead of maximizing usage to the hour, with EC2 per second billing, customers can start, stop, and terminate EC2 instances and take comfort in the fact that their EC2 resources will not be charged for the minutes and seconds remaining in the hours their instances were running.

This change is effective in all AWS Regions and is effective immediately, for Linux instances that are newly launched or already running. Per-second billing is not currently applicable to instances running Microsoft Windows or Linux distributions that have a separate hourly charge.

List prices and Spot Market prices are still listed on a per-hour basis, but bills are calculated down to the second. With Reserved Instances usage you can launch, use, and terminate multiple instances within an hour and get the Reserved Instance Benefit for all of the instances. Bills will now show times in decimal form instead of in minutes and seconds.

QUESTION 210

A company's compliance officer wants to review the AWS Service Organization Control (SOC) reports.

Which AWS service or feature should the compliance officer use to complete this task?

- A. AWS Artifact
- B. AWS Concierge Support
- C. AWS Support
- D. AWS Trusted Advisor

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/compliance/soc-faqs/>**Overview**

AWS System and Organization Controls (SOC) Reports are independent third-party examination reports that demonstrate how AWS achieves key compliance controls and objectives. The purpose of these reports is to help you and your auditors understand the AWS controls established to support operations and compliance. There are five AWS SOC Reports:

- AWS SOC 1 Report, available to AWS customers from [AWS Artifact](#).
- AWS SOC 2 Security, Availability & Confidentiality Report, available to AWS customers from [AWS Artifact](#).
- AWS SOC 2 Security, Availability & Confidentiality Report available to AWS customers from [AWS Artifact](#) (scope includes Amazon DocumentDB only).
- AWS SOC 2 Privacy Type I Report, available to AWS customers from [AWS Artifact](#).
- AWS SOC 3 Security, Availability & Confidentiality Report, [publicly available as a whitepaper](#).

QUESTION 211

Which characteristics are advantages of using the AWS Cloud? (Choose two.)

- A. A 100% service level agreement (SLA) for all AWS services
- B. Compute capacity that is adjusted on demand
- C. Availability of AWS Support for code development
- D. Enhanced security
- E. Increases in cost and complexity

Correct Answer: BD**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://intellipaat.com/blog/aws-benefits-and-drawbacks/>**QUESTION 212**

A company wants to track AWS resource configuration changes for compliance reasons.

Which AWS feature can be used to meet this requirement?

- A. AWS Cost and Usage Report
- B. AWS Organizations service control policies (SCPs)
- C. AWS Config rules
- D. VPC Flow Logs

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/config/>

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations. With Config, you can review changes in configurations and relationships between AWS resources, dive into detailed resource configuration histories, and determine your overall compliance against the configurations specified in your internal guidelines. This enables you to simplify compliance auditing, security analysis, change management, and operational troubleshooting.

QUESTION 213

A company with a Developer-level AWS Support plan provisioned an Amazon RDS database and cannot connect to it. Who should the developer contact for this level of support?

- A. AWS Support using a support case
- B. AWS Professional Services
- C. AWS technical account manager
- D. AWS consulting partners

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 214

Which service is an AWS-managed Hadoop framework that makes it easy, fast, and cost-effective to process large amounts of data across dynamically scalable Amazon EC2 instances?

- A. Amazon EMR
- B. Amazon EC2
- C. AWS Elastic Beanstalk
- D. Amazon Redshift

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/big-data/what-is-hbase/#:~:text=HBase%20and%20Hadoop%20on%20AWS,across%20dynamically%20scalable%20EC2%20instances>

What is HBase?

Apache HBase is an open-source, NoSQL, distributed big data store. It enables random, strictly consistent, real-time access to petabytes of data. HBase is very effective for handling large, sparse datasets.

HBase integrates seamlessly with Apache Hadoop and the Hadoop ecosystem and runs on top of the Hadoop Distributed File System (HDFS) or Amazon S3 using Amazon Elastic MapReduce (EMR) file system, or EMRFS. HBase serves as a direct input and output to the Apache MapReduce framework for Hadoop, and works with Apache Phoenix to enable SQL-like queries over HBase tables.

QUESTION 215

Which AWS service or feature provides information about ongoing or upcoming scheduled events that can affect an AWS account?

- A. AWS Config
- B. AWS Systems Manager
- C. AWS Personal Health Dashboard
- D. AWS Trusted Advisor

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

AWS Personal Health Dashboard provides alerts and guidance for AWS events that might affect your environment. While the Service Health Dashboard shows the general status of AWS services, the Personal Health Dashboard provides proactive and transparent notifications about your specific AWS environment.

All AWS customers can access the Personal Health Dashboard. The Personal Health Dashboard shows recent events to help you manage active events, and shows proactive notifications so that you can plan for scheduled activities. Use these alerts to get notified about changes that can affect your AWS resources, and then follow the guidance to diagnose and resolve issues.

QUESTION 216

Under the AWS shared responsibility model, which of the following is a responsibility of AWS?

- A. Enabling server-side encryption for objects stored in S3
- B. Applying AWS IAM security policies
- C. Patching the operating system on an Amazon EC2 instance
- D. Applying updates to the hypervisor

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/?ref=wellarchitected>

QUESTION 217

Which action is consistent with the principle of least privilege in terms of AWS Cloud architecture?

- A. Allow users the minimum access that is needed to do a task.
- B. Prevent managers from accessing important source code.
- C. Provide only the permissions that are needed for users to do their jobs in the current month.
- D. Assign permissions that are based on job titles.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/security/how-to-define-least-privileged-permissions-for-actions-called-by-awsservices/>

QUESTION 218

Which tasks require use of the AWS account root user? (Choose two.)

- A. Changing an AWS Support plan
- B. Modifying an Amazon EC2 instance type
- C. Grouping resources in AWS Systems Manager
- D. Running applications in Amazon Elastic Kubernetes Service (Amazon EKS)
- E. Closing an AWS account

Correct Answer: AE

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/general/latest/gr/root-vs-iam.html>

QUESTION 219

Which service enables customers to audit and monitor changes in AWS resources?

- A. AWS Trusted Advisor
- B. Amazon GuardDuty
- C. Amazon Inspector
- D. AWS Config

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations. With Config, you can review changes in configurations and relationships between AWS resources, dive into detailed resource configuration histories, and determine your overall compliance against the configurations specified in your internal guidelines. This enables you to simplify compliance auditing, security analysis, change management, and operational troubleshooting.

Reference: <https://aws.amazon.com/config/>

Tasks

- Change your account settings. This includes the account name, email address, root user password, and root user access keys. Other account settings, such as contact information, payment currency preference, and Regions, do not require root user credentials.
- Restore IAM user permissions. If the only IAM administrator accidentally revokes their own permissions, you can sign in as the root user to edit policies and restore those permissions.
- Activate IAM access to the Billing and Cost Management console.
- View certain tax invoices. An IAM user with the `aws-portal:ViewBilling` permission can view and download VAT invoices from AWS Europe, but not AWS Inc or Amazon Internet Services Pvt. Ltd (AISPL).
- Close your AWS account.
- Change your AWS Support plan  or Cancel your AWS Support plan . For more information, see IAM for AWS Support .
- Register as a seller in the Reserved Instance Marketplace.
- Configure an Amazon S3 bucket to enable MFA (multi-factor authentication) Delete.
- Edit or delete an Amazon S3 bucket policy that includes an invalid VPC ID or VPC endpoint ID.
- Sign up for GovCloud.

QUESTION 220

A company uses a database that has a simple sign-up page to create users, and a basic login form to authenticate users so they can access the database. The company wants to give users the ability to store personal information, but the user access must be controlled in a more secure and reliable way.

Which AWS service or feature will meet these requirements?

- A. Security groups
- B. Amazon GuardDuty
- C. AWS Secrets Manager
- D. Amazon Cognito

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 221

A company needs to improve the response rate of high-volume queries to its relational database.

Which AWS service should the company use to offload requests to the database and improve overall response times?

- A. Amazon DynamoDB Accelerator (DAX)
- B. Amazon ElastiCache
- C. Elastic Load Balancing
- D. AWS Global Accelerator

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 222

A company requires an isolated environment within AWS for security purposes.

Which action can be taken to accomplish this?

- A. Create a separate Availability Zone to host the resources.
- B. Create a separate VPC to host the resources.
- C. Create a placement group to host the resources.
- D. Create an AWS Direct Connect connection between the company and AWS.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/infrastructure-security.html>

Network isolation

A virtual private cloud (VPC) is a virtual network in your own logically isolated area in the AWS Cloud. Use separate VPCs to isolate infrastructure by workload or organizational entity.

A subnet is a range of IP addresses in a VPC. When you launch an instance, you launch it into a subnet in your VPC. Use subnets to isolate the tiers of your application (for example, web, application, and database) within a single VPC. Use private subnets for your instances if they should not be accessed directly from the internet.

To call the Amazon EC2 API from your VPC without sending traffic over the public internet, use AWS PrivateLink.

VCEup

QUESTION 223

Which AWS services provide a way to extend an on-premises architecture to the AWS Cloud? (Choose two.)

- A. Amazon EBS
- B. AWS Direct Connect
- C. Amazon CloudFront
- D. AWS Storage Gateway
- E. Amazon Connect

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/hybrid/>

Storage	AWS Storage Gateway	AWS Backup
 AWS Storage Gateway	AWS Storage Gateway simplifies hybrid cloud storage management and reduces costs by enabling on premises workloads to use AWS storage.	 AWS Backup makes it easy to centralize and automate the back up of data across AWS in the cloud and on premises.
Networking	AWS Direct Connect	Amazon Route 53 Resolver
 AWS Direct Connect	AWS Direct Connect establishes a private virtual interface from your on premises network to your Amazon Virtual Private Cloud (VPC).	 Amazon Route 53 Resolver delivers recursive DNS to your Amazon VPC and on premises networks.

VCEup

QUESTION 224

A company wants to set up a highly available workload in AWS with a disaster recovery plan that will allow the company to recover in case of a regional service interruption. Which configuration will meet these requirements?

- A. Run on two Availability Zones in one AWS Region, using the additional Availability Zones in the AWS Region for the disaster recovery site.
- B. Run on two Availability Zones in one AWS Region, using another AWS Region for the disaster recovery site.
- C. Run on two Availability Zones in one AWS Region, using a local AWS Region for the disaster recovery site.
- D. Run across two AWS Regions, using a third AWS Region for the disaster recovery site.

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/startups/large-scale-disaster-recovery-using-aws-regions/>**QUESTION 225**

How many Availability Zones should compute resources be provisioned across to achieve high availability?

- A. A minimum of one
- B. A minimum of two
- C. A minimum of three
- D. A minimum of four or more

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 226

Which AWS service should be used to create a billing alarm?

- A. AWS Trusted Advisor
- B. AWS CloudTrail
- C. Amazon CloudWatch
- D. Amazon QuickSight

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference:

https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/monitor_estimated_charges_with_cloudwatch.html

QUESTION 227

How does AWS Trusted Advisor provide guidance to users of the AWS Cloud? (Choose two.)

- A. It identifies software vulnerabilities in applications running on AWS
- B. It provides a list of cost optimization recommendations based on current AWS usage
- C. It detects potential security vulnerabilities caused by permissions settings on account resources
- D. It automatically corrects potential security issues caused by permissions settings on account resources
- E. It provides proactive alerting whenever an Amazon EC2 instance has been compromised

Correct Answer: BC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 228

A company has a centralized group of users with large file storage requirements that have exceeded the space available on premises. The company wants to extend its file storage capabilities for this group while retaining the performance benefit of sharing content locally.

What is the MOST operationally efficient AWS solution for this scenario?

- A. Create an Amazon S3 bucket for each user. Mount each bucket by using an S3 file system mounting utility.
- B. Configure and deploy an AWS Storage Gateway file gateway. Connect each user's workstation to the file gateway.
- C. Move each user's working environment to Amazon WorkSpaces. Set up an Amazon WorkDocs account for each user.
- D. Deploy an Amazon EC2 instance and attach an Amazon Elastic Block Store (Amazon EBS) Provisioned IOPS volume. Share the EBS volume directly with the users.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 229

Which AWS service identifies security groups that allow unrestricted access to a user's AWS resources?

- A. AWS CloudTrail
- B. AWS Trusted Advisor
- C. Amazon CloudWatch
- D. Amazon Inspector

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 230

Which of the following is a benefit of using the AWS Cloud?

- A. Permissive security removes the administrative burden.
- B. Ability to focus on revenue-generating activities.
- C. Control over cloud network hardware.
- D. Choice of specific cloud hardware vendors.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Developer and IT staff productivity accounted for nearly 30% of overall financial benefits. The remaining benefits were driven by the flexibility and agility of Amazon cloud infrastructure services, which make it easier to trial new business models, support revenue-generating applications, and provide more reliable services to end users.

Reference: https://media.amazonwebservices.com/IDC_Business_Value_of_AWS_Accelerates_Over_time.pdf

QUESTION 231

Under the AWS shared responsibility model, customer responsibilities include which one of the following?

- A. Securing the hardware, software, facilities, and networks that run all products and services.
- B. Providing certificates, reports, and other documentation directly to AWS customers under NDA.
- C. Configuring the operating system, network, and firewall.
- D. Obtaining industry certifications and independent third-party attestations.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

**QUESTION 232**

Which are customer responsibilities when using Amazon EC2? (Choose two.)

- A. Underlying hardware maintenance
- B. File-system-level encryption
- C. Guest operating system firewall configuration
- D. Hypervisor-level software patching
- E. Physical security at data center facilities

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/?ref=wellarchitected>

QUESTION 233

What is Amazon CloudWatch?

- A. A code repository with customizable build and team commit features.
- B. A metrics repository with customizable notification thresholds and channels.
- C. A security configuration repository with threat analytics.
- D. A rule repository of a web application firewall with automated vulnerability prevention features.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon CloudWatch is basically a metrics repository. An AWS service — such as Amazon EC2 — puts metrics into the repository, and you retrieve statistics based on those metrics. If you put your own custom metrics into the repository, you can retrieve statistics on these metrics as well.

Reference: https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/cloudwatch_architecture.html

QUESTION 234

Which controls are shared under the AWS shared responsibility model? (Choose two.)

- A. Awareness and training
- B. Patching of Amazon RDS
- C. Configuration management

- D. Physical and environmental controls
- E. Service and communications protection or security

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/#:~:text=Shared%20Controls%20-%20Controls%20which%20apply,their%20use%20of%20AWS%20services>.

QUESTION 235

Which AWS Trusted Advisor checks are available to users with AWS Basic Support? (Choose two.)

- A. Service limits
- B. High utilization Amazon EC2 instances
- C. Security groups – specific ports unrestricted
- D. Load balancer optimization
- E. Large number of rules in an EC2 security groups

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/faqs/>

QUESTION 236

Which phase describes agility as a benefit of building in the AWS Cloud?

- VCEup
- A. The ability to pay only when computing resources are consumed, based on the volume of resources that are consumed
 - B. The ability to eliminate guessing about infrastructure capacity needs
 - C. The ability to support innovation through a reduction in the time that is required to make IT resources available to developers
 - D. The ability to deploy an application in multiple AWS Regions around the world in minutes

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 237

Which of the following are AWS Trusted Advisor support categories? (Choose two.)

- A. Operational excellence
- B. Cost optimization
- C. Security
- D. Well-Architected Framework
- E. Rightsizing

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Trusted Advisor

Reduce costs, improve performance, improve security

Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/>

QUESTION 238

What is one of the customer's responsibilities according to the AWS shared responsibility model?

- A. Virtualization infrastructure
- B. Network infrastructure
- C. Application security
- D. Physical security of hardware

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>

QUESTION 239

Which AWS service will help users determine if an application running on an Amazon EC2 instance has sufficient CPU capacity?

- A. Amazon CloudWatch
- B. AWS Config
- C. AWS CloudTrail
- D. Amazon Inspector

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/faqs/>

QUESTION 240

What is the value of using third-party software from AWS Marketplace instead of installing third-party software on Amazon EC2? (Choose two.)

- A. Users pay for software by the hour or month depending on licensing.
- B. AWS Marketplace enables the user to launch applications with 1-Click.
- C. AWS Marketplace data encryption is managed by a third-party vendor.
- D. AWS Marketplace eliminates the need to upgrade to newer software versions.
- E. Users can deploy third-party software without testing.

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/partners/aws-marketplace/>

QUESTION 241

A company wants to automate the retention, creation, and deletion of Amazon Elastic Block Store (Amazon EBS) snapshots.

Which AWS service or feature can the company use to meet this requirement?

- A. AWS Organizations
- B. Amazon Data Lifecycle Manager (Amazon DLM)

- C. AWS Systems Manager
- D. Amazon S3 Lifecycle policies

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/storage/automating-amazon-ebs-snapshots-management-using-data-lifecyclemanager/>

QUESTION 242

What tool enables customers without an AWS account to estimate costs for almost all AWS services?

- A. Cost Explorer
- B. TCO Calculator
- C. AWS Budgets
- D. Simple Monthly Calculator

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/aws-cost-management/aws-cost-explorer/>

AWS Cost Explorer Features		
Get started quickly	Set time interval and granularity	Filter/Group your data
A set of default reports are included to help you quickly gain insight into your cost drivers and usage trends.	Set a custom time period, and determine whether you would like to view your data at a monthly or daily level of granularity.	Dig deeper into your data by taking advantage of filtering and grouping functionality, using a variety of available dimensions.
Forecast future costs and usage	Save your progress	Build custom applications
Use forecasting to get a better idea of what your costs and usage may look like in the future, so that you can plan ahead.	Once you arrive at a helpful view, save your progress as a new report that you can refer back to in the future.	Directly access the interactive, ad-hoc analytics engine that powers AWS Cost Explorer.

QUESTION 243

Why should a company choose AWS instead of a traditional data center?

- A. AWS provides users with full control over the underlying resources.
- B. AWS does not require long-term contracts and provides a pay-as-you-go model.
- C. AWS offers edge locations in every country, supporting global reach.
- D. AWS has no limits on the number of resources that can be created.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS offers you a pay-as-you-go approach for pricing for over 160 cloud services. With AWS you pay only for the individual services you need, for as long as you use them, and without requiring long-term contracts or complex licensing. AWS pricing is similar to how you pay for utilities like water and electricity. You only pay for the services you consume, and once you stop using them, there are no additional costs or termination fees.

Reference: <https://aws.amazon.com/pricing/>

QUESTION 244

Which of the following components of the AWS Global Infrastructure consists of one or more discrete data centers interconnected through low latency links?

- A. Availability Zone
- B. Edge location
- C. Region
- D. Private networking

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/global-infrastructure.html>

QUESTION 245

How does AWS MOST effectively reduce computing costs for a growing start-up company?

- A. It provides on-demand resources for peak usage.
- B. It automates the provisioning of individual developer environments.
- C. It automates customer relationship management.
- D. It implements a fixed monthly computing budget.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

You can continue to optimize your spend and keep your development costs low by making sure you revisit your architecture often, to adjust to your startup growth. Manage your cost further by leveraging different options such as S3 CloudFront for caching & offloading to reduce cost of EC2 computing, as well as Elastic Load Balancing which prepares you for massive scale, high reliability and uninterrupted growth. Another way to keep costs down is to use AWS Identity and Access Management solutions (IAM) to manage governance of your cost drivers effectively and by the right teams. Reference: <https://aws.amazon.com/startups/lean/>

QUESTION 246

Which credentials used to sign in to the AWS Management Console meet security best practices? (Choose two.)

- A. An access key
- B. Multi-factor authentication
- C. X.509 certificates
- D. A secret key
- E. User name and password

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/security/getting-started-follow-security-best-practices-as-you-configure-your-awsresources/>

QUESTION 247

What can AWS edge locations be used for? (Choose two.)

- A. Hosting applications
- B. Delivering content closer to users
- C. Running NoSQL database caching services
- D. Reducing traffic on the server by caching responses

E. Sending notification messages to end users

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

CloudFront delivers your content through a worldwide network of data centers called edge locations. When a user requests content that you're serving with CloudFront, the user is routed to the edge location that provides the lowest latency (time delay), so that content is delivered with the best possible performance.

Reference: <https://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/Introduction.html>

QUESTION 248

Which of the following is an example of how moving to the AWS Cloud reduces upfront cost?

- A. By replacing large variable costs with lower capital investments
- B. By replacing large capital investments with lower variable costs
- C. By allowing the provisioning of compute and storage at a fixed level to meet peak demand
- D. By replacing the repeated scaling of virtual servers with a simpler fixed-scale model

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS does not require minimum spend commitments or long-term contracts. You replace large upfront expenses with low variable payments that only apply to what you use. With AWS you are not bound to multi-year agreements or complicated licensing models.

Reference: <https://aws.amazon.com/economics/>

QUESTION 249

A company is building a new archiving system on AWS that will store terabytes of data. The company will NOT retrieve the data often.

Which Amazon S3 storage class will MINIMIZE the cost of the system?

- A. S3 Standard-Infrequent Access (S3 Standard-IA)
- B. S3 Glacier
- C. S3 Intelligent-Tiering
- D. S3 One Zone-Infrequent Access (S3 One Zone-IA)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/s3/faqs/>

QUESTION 250

Which benefit is available for Convertible Reserved Instances but NOT Standard Reserved Instances?

- A. The instances can be exchanged for instances of a different instance size.
- B. The instances can be exchanged for instances of a different instance family.
- C. The instances can be changed to a different Availability Zone.
- D. The instances can be changed to a different AWS Region.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/about-aws/whats-new/2016/09/amazon-ec2-convertible-reserved-instances-and-thereserved-instance-regional-benefit/>

QUESTION 251

How does AWS charge for AWS Lambda usage once the free tier has been exceeded? (Choose two.)

- A. By the time it takes for the Lambda function to execute.
- B. By the number of versions of a specific Lambda function.
- C. By the number of requests made for a given Lambda function.
- D. By the programming language that is used for the Lambda function.
- E. By the total number of Lambda functions in an AWS account.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 252

Why is it beneficial to use Elastic Load Balancers with applications?

- A. They allow for the conversion from Application Load Balancers to Classic Load Balancers.
- B. They are capable of handling constant changes in network traffic patterns.
- C. They automatically adjust capacity.
- D. They are provided at no charge to users.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/elasticloadbalancing/latest/userguide/what-is-load-balancing.html>



QUESTION 253

Which AWS service should a cloud practitioner use to identify security vulnerabilities of an AWS account?

- A. AWS Secrets Manager
- B. Amazon Cognito
- C. Amazon Macie
- D. AWS Trusted Advisor

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.coalfire.com/the-coalfire-blog/march-2019/aws-trusted-advisor-for-security-compliance>

QUESTION 254

What is the LEAST expensive AWS Support plan that provides 24-hour access to AWS customer service and AWS communities?

- A. AWS Enterprise Support
- B. AWS Business Support
- C. AWS Developer Support
- D. AWS Basic Support

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 255

Which of the following is a cloud architectural design principle?

- A. Scale up, not out.
- B. Loosely couple components.
- C. Build monolithic systems.
- D. Use commercial database software.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Loosely coupled architectures reduce interdependencies, so that a change or failure in a component does not cascade to other components.

Reference: https://aws-certified-cloudpractitioner.fandom.com/wiki/1.3_List_the_different_cloud_architecture_design_principles

QUESTION 256

AWS CloudFormation is designed to help the user:

- A. model and provision resources.
- B. update application code.
- C. set up data lakes.
- D. create reports for billing.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS CloudFormation provides a common language for you to model and provision AWS and third party application resources in your cloud environment. AWS CloudFormation allows you to use programming languages or a simple text file to model and provision, in an automated and secure manner, all the resources needed for your applications across all regions and accounts. This gives you a single source of truth for your AWS and third party resources.

Reference: <https://aws.amazon.com/cloudformation/>

QUESTION 257

A company needs to track the activity in its AWS accounts, and needs to know when an API call is made against its AWS resources.

Which AWS tool or service can be used to meet these requirements?

- A. Amazon CloudWatch
- B. Amazon Inspector
- C. AWS Cloud Trail
- D. AWS IAM

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/cloudtrail/>

How it works

AWS CloudTrail monitors and records account activity across your AWS infrastructure, giving you control over storage, analysis, and remediation actions.

**QUESTION 258**

A company wants to migrate a small website and database quickly from on-premises infrastructure to the AWS Cloud. The company has limited operational knowledge to perform the migration. Which AWS service supports this use case?

- A. Amazon EC2
- B. Amazon Lightsail
- C. Amazon S3
- D. AWS Lambda

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://docs.aws.amazon.com/prescriptive-guidance/latest/patterns/migrate-small-sets-of-data-from-on-premises-to-amazon-s3-using-aws-sftp.html>**QUESTION 259**

Which of the following tasks is the responsibility of AWS?

- A. Encrypting client-side data
- B. Configuring AWS Identity and Access Management (IAM) roles
- C. Securing the Amazon EC2 hypervisor
- D. Setting user password policies

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

In EC2, the AWS IaaS offering, everything from the hypervisor layer down is AWS's responsibility. A customer's poorly coded applications, misconfigured operating systems, or insecure firewall settings will not affect the hypervisor, it will only affect the customer's virtual machines running on that hypervisor.

Reference: <https://www.mindpointgroup.com/blog/the-aws-shared-responsibility-model-part-1-security-in-the-cloud/>**QUESTION 260**

A web developer has limited knowledge of AWS networking services such as Amazon VPC, Elastic Load Balancing, and Auto Scaling, but wants to host a highly available web application. Which AWS service would automatically handle the deployment and reduce the complexity for the developer?

- A. AWS CodeDeploy
- B. AWS Resource Access Manager
- C. AWS Elastic Beanstalk
- D. AWS CloudFormation

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/Welcome.html>

QUESTION 261

An Amazon EC2 instance runs only when needed yet must remain active for the duration of the process.

What is the most appropriate purchasing option?

- A. Dedicated Instances
- B. Spot Instances
- C. On-Demand Instances
- D. Reserved Instances

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://jayendrapatil.com/aws-ec2-instance-purchasing-option/>

QUESTION 262

A director has been tasked with investigating hybrid cloud architecture. The company currently accesses AWS over the public internet.

Which service will facilitate private hybrid connectivity?

- A. Amazon Virtual Private Cloud (Amazon VPC) NAT Gateway
- B. AWS Direct Connect
- C. Amazon Simple Storage Service (Amazon S3) Transfer Acceleration
- D. AWS Web Application Firewall (AWS WAF)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon VPC provides multiple network connectivity options for you to leverage depending on your current network designs and requirements. These connectivity options include leveraging either the internet or an AWS Direct Connect connection as the network backbone and terminating the connection into either AWS or user-managed network endpoints. Additionally, with AWS, you can choose how network routing is delivered between Amazon VPC and your networks, leveraging either AWS or user-managed network equipment and routes.

Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-vpc-connectivity-options/introduction.html>

QUESTION 263

The use of what AWS feature or service allows companies to track and categorize spending on a detailed level?

- A. Cost allocation tags
- B. Consolidated billing
- C. AWS Budgets
- D. AWS Marketplace

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/startups/how-to-set-aws-budget-when-paying-with-aws-credits/>

QUESTION 264

A company wants to ensure that AWS Management Console users are meeting password complexity requirements. How can the company configure password complexity?

- A. Using an AWS IAM user policy
- B. Using an AWS Organizations service control policy (SCP)
- C. Using an AWS IAM account password policy
- D. Using an AWS Security Hub managed insight

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_passwords_account-policy.html

QUESTION 265

A company is running and managing its own Docker environment on Amazon EC2 instances. The company wants to alternate to help manage cluster size, scheduling, and environment maintenance. Which AWS service meets these requirements?

- A. AWS Lambda
- B. Amazon RDS
- C. AWS Fargate
- D. Amazon Athena

Correct Answer: C

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ecs/?whats-new-cards.sort-by=item.additionalFields.postDateTime&whats-newcards.sort-order=desc&ecs-blogs.sort-by=item.additionalFields.createdDate&ecsblogs.sort-order=desc>

QUESTION 266

For which auditing process does AWS have sole responsibility?

- A. AWS IAM policies
- B. Physical security
- C. Amazon S3 bucket policies
- D. AWS CloudTrail Logs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 267

What should users do if they want to install an application in geographically isolated locations?

- A. Install the application using multiple internet gateways.
- B. Deploy the application to an Amazon VPC.
- C. Deploy the application to multiple AWS Regions.
- D. Configure the application using multiple NAT gateways.

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>**QUESTION 268**

Which of the following are recommended practices for managing IAM users? (Choose two.)

- A. Require IAM users to change their passwords after a specified period of time
- B. Prevent IAM users from reusing previous passwords
- C. Recommend that the same password be used on AWS and other sites
- D. Require IAM users to store their passwords in raw text
- E. Disable multi-factor authentication (MFA) for IAM users

Correct Answer: AB**Section:** (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>**QUESTION 269**

A user has an AWS Business Support plan and requires detailed billing information.

Which AWS resource will help?

- A. AWS Concierge Support
- B. AWS Service Catalog
- C. AWS Budgets
- D. AWS Cost and Usage Report

Correct Answer: A**Section:** (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/faqs/>**QUESTION 270**

A company is based in the us-east-1 Region and has a satellite office in the eu-west-2 Region. The company wants to use Amazon WorkSpaces to host its internal web portal and virtual desktops for employees. What should the company do to minimize latency and ensure the best possible performance for employees?

- A. Deploy the internal web portal and virtual desktops to us-east-1 only. Use an Amazon CloudFront distribution for the users in eu-west-2.
- B. Deploy the internal web portal to us-east-1 only. Deploy the virtual desktops to us-east-1 and eu-west-2.
- C. Deploy the internal web portal to us-east-1 and eu-west-2. Deploy the virtual desktops on network optimized Amazon EC2 instances to us-east-1 only.
- D. Deploy the internal web portal and virtual desktops to us-east-1 and eu-west-2.

Correct Answer: B**Section:** (none)

Explanation

Explanation/Reference:**QUESTION 271**

Which of the following AWS services can be used to run a self-managed database?

- A. Amazon Route 53
- B. AWS X-Ray
- C. AWS Snowmobile
- D. Amazon Elastic Compute Cloud (Amazon EC2)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://severalnines.com/news/aws-users-prefer-self-managed-databases>

AWS users 'prefer self-managed databases'

Some of Amazon Web Services (AWS) most advanced users have been explaining their solutions for managing databases on the platform, with many stating they favour self-managed options over Amazon's managed offerings.

This was one of the key takeaways from a series of presentations as part of the inaugural meeting of the AWS Super Users Online Meetup Group, Tech Target reports, which saw a majority of the speakers say they run databases such as Cassandra and MySQL on the Elastic Compute Cloud (EC2), rather than using Amazon's Database as a Service (DBaaS) platforms, such as the Relational Database Service (RDS) and DynamoDB.

QUESTION 272

A company is launching a new application in the AWS Cloud. The application will run on an Amazon EC2 instance. More EC2 instances will be needed when the workload increases. Which AWS service or tool can the company use to launch the number of EC2 instances that will be needed to handle the workload?

- A. Elastic Load Balancing
- B. Amazon EC2 Auto Scaling
- C. AWS App2Container (A2C)
- D. AWS Systems Manager

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Elastic Load Balancing automatically distributes your incoming application traffic across all the EC2 instances that you are running. Elastic Load Balancing helps to manage incoming requests by optimally routing traffic so that no one instance is overwhelmed.

Reference: <https://docs.aws.amazon.com/autoscaling/ec2/userguide/autoscaling-load-balancer.html>

QUESTION 273

A company is building a mobile app to provide shopping recommendations to its customers. The company wants to use a graph database as part of the shopping recommendation engine. Which AWS database service should the company choose?

- A. Amazon DynamoDB
- B. Amazon Aurora
- C. Amazon Neptune
- D. Amazon DocumentDB (with MongoDB compatibility)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://techcrunch.com/2017/11/29/amazon-introduces-an-aws-graph-database-service-called-amazon-neptune/>

Amazon is in the middle of its AWS Re:INVENT keynote right now, and the company just announced a brand new database service. Amazon Neptune has been specifically designed for relationship graphs. So if you're thinking about building a social network feature, Neptune can help you.

The issue with traditional relational databases is that they're not made for complex social graphs with complicated lists of friends and followers. By default, you have to run demanding database queries to list the friends you have in common for instance.

So you can either throw more coal into the engine or you can optimize your database. Amazon Neptune has been optimized to handle billions of relationships and run queries within milliseconds. Neptune supports fast-failover, point-in-time recovery and Multi-AZ deployments. And you can also encrypt data at rest.

QUESTION 274

Which AWS service enables users to consolidate billing across multiple accounts?

- A. Amazon QuickSight
- B. AWS Organizations
- C. AWS Budgets
- D. Amazon Forecast

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

You can use the consolidated billing feature in AWS Organizations to consolidate billing and payment for multiple AWS accounts or multiple Amazon Internet Services Pvt. Ltd (AISPL) accounts. Every organization in AWS Organizations has a master (payer) account that pays the charges of all the member (linked) accounts.

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>

QUESTION 275

What tasks should a customer perform when that customer suspects an AWS account has been compromised? (Choose two.)

- A. Rotate passwords and access keys.
- B. Remove MFA tokens.
- C. Move resources to a different AWS Region.
- D. Delete AWS CloudTrail Resources.
- E. Contact AWS Support.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/potential-account-compromise/>



Short description

Note: If you can't sign in to your account, use the [Contact Us](#) form to request help from AWS Support. The form also includes instructions on how to reset your password.

If you observe unauthorized activity within your AWS account, or you believe that an unauthorized party accessed your account, then do the following:

- Rotate and [delete](#) all root and AWS Identity and Access Management (IAM) access keys.
 - Delete any potentially unauthorized IAM users, and then [change the password](#) for all other IAM users.
 - Check your bill. Your bill can help you identify resources that you didn't create.
 - Delete any resources on your account that you didn't create, such as [Amazon Elastic Compute Cloud \(Amazon EC2\)](#) instances and AMIs, [Amazon Elastic Block Store \(Amazon EBS\)](#) volumes and snapshots, and IAM users.
- Note:** Before deleting your resources, consider if you have a regulatory or legal need to investigate those resources. If so, consider keeping a few snapshots of EBS resources.
- Enable multi-factor authentication (MFA) on the root user and any IAM users with console access. Enabling MFA can help you to secure the accounts and prevent unauthorized users from logging in to accounts without a security token.
 - Verify that your account information is correct.
 - Respond to the notifications that you received from AWS Support through the [AWS Support Center](#).

QUESTION 276

Who is responsible for managing IAM user access and secret keys according to the AWS shared responsibility model?

- A. IAM access and secret keys are static, so there is no need to rotate them.
- B. The customer is responsible for rotating keys.
- C. AWS will rotate the keys whenever required.
- D. The AWS Support team will rotate keys when requested by the customer.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>

QUESTION 277

A user has an AWS account with a Business-level AWS Support plan and needs assistance with handling a production service disruption. Which action should the user take?

- A. Contact the dedicated AWS technical account manager (TAM).
- B. Contact the dedicated AWS Concierge Support team.
- C. Open a business-critical system down support case.
- D. Open a production system down support case.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 278

A user needs to generate a report that outlines the status of key security checks in an AWS account. The report must include:

The status of Amazon S3 bucket permissions.

Whether multi-factor authentication is enabled for the AWS account root user. If any security groups are configured to allow unrestricted access.

Where can all this information be found in one location?

- A. Amazon QuickSight dashboard
- B. AWS CloudTrail trails
- C. AWS Trusted Advisor report

D. IAM credential report

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/#Security>

QUESTION 279

When performing a cost analysis that supports physical isolation of a customer workload, which compute hosting model should be accounted for in the Total Cost of Ownership (TCO)?

- A. Dedicated Hosts
- B. Reserved Instances
- C. On-Demand Instances
- D. No Upfront Reserved Instances

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Use Dedicated Hosts to launch Amazon EC2 instances on physical servers that are dedicated for your use. Dedicated Hosts give you additional visibility and control over how instances are placed on a physical server, and you can reliably use the same physical server over time. As a result, Dedicated Hosts enable you to use your existing server-bound software licenses like Windows Server and address corporate compliance and regulatory requirements.

QUESTION 280

Which service's PRIMARY purpose is software version control?

- A. Amazon CodeStar
- B. AWS Command Line Interface (AWS CLI)
- C. Amazon Cognito
- D. AWS CodeCommit

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS CodeCommit is a version control service hosted by Amazon Web Services that you can use to privately store and manage assets (such as documents, source code, and binary files) in the cloud.

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

QUESTION 281

Which AWS service allows customers to purchase unused Amazon EC2 capacity at an often discounted rate?

- A. Reserved Instances
- B. On-Demand Instances
- C. Dedicated Instances
- D. Spot Instances

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/spot/>

QUESTION 282

What is the purpose of AWS Storage Gateway?

- A. It ensures on-premises data storage is 99.999999999% durable.
- B. It transports petabytes of data to and from AWS.
- C. It connects to multiple Amazon EC2 instances.
- D. It connects on-premises data storage to the AWS Cloud.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Moving data to the cloud is not quite as simple as flipping a switch. For companies that have managed their own data centers or server rooms for decades, there are a few steps to consider -- and it's not always wise to pull the plug on an internal infrastructure quite so quickly. If a startup uses on-premise business servers and then experiences unexpected growth, abandoning those servers doesn't make sense (even if the long-term plan is to do exactly that).

AWS Storage Gateway is a way to bridge this gap for companies of any size. It's a hybrid storage option that connects on-premise storage including age-old tape backup systems to the cloud in a way that also provides one console to access all storage configurations.

Reference: <https://www.techradar.com/news/what-is-aws-storage-gateway>

QUESTION 283

As part of the AWS shared responsibility model, which of the following operational controls do users fully inherit from AWS?

- A. Security management of data center
- B. Patch management
- C. Configuration management
- D. User and access management

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

Security and Compliance is a shared responsibility between AWS and the customer. This shared model can help relieve the customer's operational burden as AWS operates, manages and controls the components from the host operating system and virtualization layer down to the physical security of the facilities in which the service operates. The customer assumes responsibility and management of the guest operating system (including updates and security patches), other associated application software as well as the configuration of the AWS provided security group firewall. Customers should carefully consider the services they choose as their responsibilities vary depending on the services used, the integration of those services into their IT environment, and applicable laws and regulations. The nature of this shared responsibility also provides the flexibility and customer control that permits the deployment. As shown in the chart below, this differentiation of responsibility is commonly referred to as Security "of" the Cloud versus Security "in" the Cloud.

QUESTION 284

Which of the following can limit Amazon Storage Service (Amazon S3) bucket access to specific users?

- A. A public and private key-pair
- B. Amazon Inspector
- C. AWS Identity and Access Management (IAM) policies
- D. Security Groups

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/security/how-to-restrict-amazon-s3-bucket-access-to-a-specific-iam-role/>

QUESTION 285

A company wants to try a third-party ecommerce solution before deciding to use it long term.
Which AWS service or tool will support this effort?

- A. AWS Marketplace
- B. AWS Partner Network (APN)
- C. AWS Managed Services
- D. AWS Service Catalog

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/about-aws/whats-new/2019/09/aws-marketplace-easier-to-find-solutions-from-awsconsole/>

QUESTION 286

What is an AWS Identity and Access Management (IAM) role?

- A. A user associated with an AWS resource
- B. A group associated with an AWS resource
- C. An entity that defines a set of permissions for use with an AWS resource
- D. An authentication credential associated with a multi-factor authentication (MFA) token

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Identity and Access Management (IAM) enables you to manage access to AWS services and resources securely.

Using IAM, you can create and manage AWS users and groups, and use permissions to allow and deny their access to AWS resources.

Reference: <https://aws.amazon.com/iam/>

QUESTION 287

A company is building an application that requires the ability to send, store, and receive messages between application components. The company has another requirement to process messages in first-in, first-out (FIFO) order.
Which AWS service should the company use?

- A. AWS Step Functions
- B. Amazon Simple Notification Service (Amazon SNS)
- C. Amazon Kinesis Data Streams
- D. Amazon Simple Queue Service (Amazon SQS)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/sqs/faqs/>

QUESTION 288

Which AWS service provides the ability to quickly run one-time queries on data in Amazon S3?

- A. Amazon EMR



- B. Amazon DynamoDB
- C. Amazon Redshift
- D. Amazon Athena

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/athena/?whats-new-cards.sort-by=item.additionalFields.postDateTime&whats-newcards.sort-order=desc>

Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL. Athena is serverless, so there is no infrastructure to manage, and you pay only for the queries that you run.

Athena is easy to use. Simply point to your data in Amazon S3, define the schema, and start querying using standard SQL. Most results are delivered within seconds. With Athena, there's no need for complex ETL jobs to prepare your data for analysis. This makes it easy for anyone with SQL skills to quickly analyze large-scale datasets.

Athena is out-of-the-box integrated with AWS Glue Data Catalog, allowing you to create a unified metadata repository across various services, crawl data sources to discover schemas and populate your Catalog with new and modified table and partition definitions, and maintain schema versioning.

QUESTION 289

A company implements an Amazon EC2 Auto Scaling policy along with an Application Load Balancer to automatically recover unhealthy applications that run on Amazon EC2 instances. Which pillar of the AWS Well-Architected Framework does this action cover?

- A. Security
- B. Performance efficiency
- C. Operational excellence
- D. Reliability

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/wellarchitected/latest/reliability-pillar/wellarchitected-reliability-pillar.pdf>

QUESTION 290

Where should users report that AWS resources are being used for malicious purposes?

- A. AWS Abuse team
- B. AWS Shield
- C. AWS Support
- D. AWS Developer Forums

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>

QUESTION 291

Under the AWS shared responsibility model, which of the following is a customer responsibility?

- A. Installing security patches for the Xen and KVM hypervisors
- B. Installing operating system patches for Amazon DynamoDB

- C. Installing operating system security patches for Amazon EC2 database instances
- D. Installing operating system security patches for Amazon RDS database instances

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 292

Which task is shared between AWS and the customer, according to the AWS shared responsibility model?

- A. Physical and environmental controls
- B. Server hardware management and encryption
- C. Application security
- D. Patch management and configuration management

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Shared Controls – Controls which apply to both the infrastructure layer and customer layers, but in completely separate contexts or perspectives. In a shared control, AWS provides the requirements for the infrastructure and the customer must provide their own control implementation within their use of AWS services. Examples include:

Patch Management – AWS is responsible for patching and fixing flaws within the infrastructure, but customers are responsible for patching their guest OS and applications.

Configuration Management – AWS maintains the configuration of its infrastructure devices, but a customer is responsible for configuring their own guest operating systems, databases, and applications. Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/>



QUESTION 293

A company wants to analyze streaming user data and respond to customer queries in real time.

Which AWS service can meet these requirements?

- A. Amazon QuickSight
- B. Amazon Redshift
- C. Amazon Kinesis Data Analytics
- D. AWS Data Pipeline

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon Kinesis Data Streams is a scalable and durable real-time data streaming service that can continuously capture gigabytes of data per second from hundreds of thousands of sources. Reference: <https://aws.amazon.com/kinesis/>

QUESTION 294

Which service would provide network connectivity in a hybrid architecture that includes the AWS Cloud?

- A. Amazon VPC
- B. AWS Direct Connect
- C. AWS Directory Service
- D. Amazon API Gateway

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon Virtual Private Cloud (Amazon VPC) is a logically isolated, private section of the AWS Cloud to launch resources in a virtual data center in the cloud. Amazon VPC allows you to leverage multiple Availability Zones (AZ) within a region so that you can build greater fault tolerance within your workloads. You have complete control.

Reference: <https://aws.amazon.com/blogs/publicsector/aws-networking-capabilities-gives-you-choices-for-hybrid-cloudconnectivity-but-which-service-works-best-for-your-use-case/>

QUESTION 295

Which of the following are pillars of the AWS Well-Architected Framework? (Choose two.)

- A. Multiple Availability Zones
- B. Performance efficiency
- C. Security
- D. Encryption usage
- E. High availability

Correct Answer: BC**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: https://d1.awsstatic.com/whitepapers/architecture/AWS_Well-Architected_Framework.pdf (5)

QUESTION 296

A company would like to host its MySQL databases on AWS and maintain full control over the operating system, database installation, and configuration. Which AWS service should the company use to host the databases?

- A. Amazon RDS
- B. Amazon EC2
- C. Amazon DynamoDB
- D. Amazon Aurora

**Correct Answer:** B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: https://d1.awsstatic.com/whitepapers/best-practices-for-running-oracle-database-onaws.pdf?did=wp_card&trk=wp_card (06)

QUESTION 297

Which of the following AWS features enables a user to launch a pre-configured Amazon Elastic Compute Cloud (Amazon EC2) instance?

- A. Amazon Elastic Block Store (Amazon EBS)
- B. Amazon Machine Image
- C. Amazon EC2 Systems Manager
- D. Amazon AppStream 2.0

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

To use Amazon EC2, you simply:

Select a pre-configured, templated Amazon Machine Image (AMI) to get up and running immediately. Or create an AMI containing your applications, libraries, data, and associated configuration settings.

Configure security and network access on your Amazon EC2 instance.

Choose which instance type(s) you want, then start, terminate, and monitor as many instances of your AMI as needed, using the web service APIs or the variety of management tools provided. Determine whether you want to run in multiple locations, utilize static IP endpoints, or attach persistent block storage to your instances. Pay only for the resources that you actually consume, like instance-hours or data transfer. Reference: <https://aws.amazon.com/ec2/features/>

QUESTION 298

Which task requires the use of AWS account root account user credentials?

- A. Closing an AWS account
- B. Creating a log file
- C. Modifying IAM user permissions
- D. Deleting IAM users

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/general/latest/gr/root-vs-iam.html>

QUESTION 299

What does the AWS Simple Monthly Calculator do?

- A. Compares on-premises costs to colocation environments
- B. Estimates monthly billing based on projected usage
- C. Estimates power consumption at existing data centers
- D. Estimates CPU utilization

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

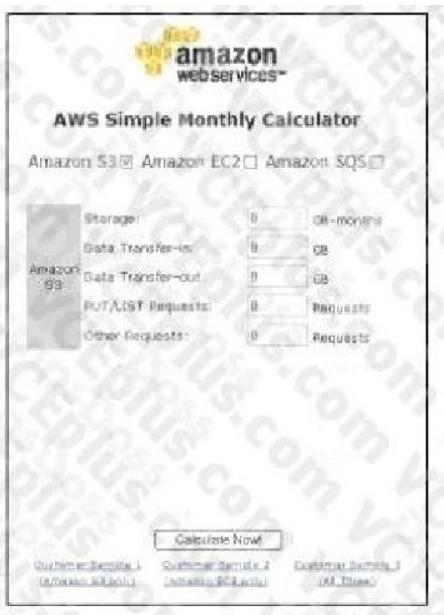
Reference: <https://aws.amazon.com/blogs/aws/estimate-your-costs/>

We created a JavaScript-based tool that allows you to calculate your monthly cost for using Amazon S3, Amazon EC2, and Amazon SQS.

This tool incorporates the latest pricing changes including the tiered pricing model for download bandwidth.

Use this tool to estimate your monthly bill, to determine your best and worst case scenarios (if you get Slashdotted, Dugg etc.), and identify areas of development to reduce your monthly costs and even compare it with other service providers who do not offer utility-style of billing (pay-as-you-go).

You can view the calculator here:

**QUESTION 300**

Compared with costs in traditional and virtualized data centers, AWS has:

- A. greater variable costs and greater upfront costs.
- B. fixed usage costs and lower upfront costs.
- C. lower variable costs and greater upfront costs.

D. lower variable costs and lower upfront costs.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://d1.awsstatic.com/whitepapers/introduction-to-aws-cloud-economics-final.pdf> (10)



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QUESTION 301

Which of the following AWS Cloud services can be used to run a customer-managed relational database?

- A. Amazon EC2
- B. Amazon Route 53
- C. Amazon ElastiCache
- D. Amazon DynamoDB

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 302

How can a company reduce its Total Cost of Ownership (TCO) using AWS?

- A. By minimizing large capital expenditures
- B. By having no responsibility for third-party license costs
- C. By having no operational expenditures
- D. By having AWS manage applications

Correct Answer: A

Section: (none)**Explanation****Explanation/Reference:****Explanation:**

AWS helps you reduce Total Cost of Ownership (TCO) by reducing the need to invest in large capital expenditures and providing a pay-as-you-go model that empowers you to invest in the capacity you need and use it only when the business requires it.

Reference: <https://aws.amazon.com/tco-calculator/>

QUESTION 303

A user needs to regularly audit and evaluate the setup of all AWS resources, identify non-compliant accounts, and be notified when a resource changes.
Which AWS service can be used to meet these requirements?

- A. AWS Trusted Advisor
- B. AWS Config
- C. AWS Resource Access Manager
- D. AWS Systems Manager

Correct Answer: B

Section: (none)**Explanation****Explanation/Reference:****QUESTION 304**

Which AWS service provides a customized view of the health of specific AWS services that power a customer's workloads running on AWS?

- A. AWS Service Health Dashboard
- B. AWS X-Ray
- C. AWS Personal Health Dashboard
- D. Amazon CloudWatch

Correct Answer: C

Section: (none)**Explanation****Explanation/Reference:****Explanation:**

Personal Health Dashboard gives you a personalized view of the status of the AWS services that power your applications, enabling you to quickly see when AWS is experiencing issues that may impact you. For example, in the event of a lost EBS volume associated with one of your EC2 instances, you would gain quick visibility into the status of the specific service you are using, helping save precious time troubleshooting to determine root cause.

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

QUESTION 305

Which AWS service or feature for technical assistance is available to a user who has the AWS Basic Support plan?

- A. AWS senior support engineers
- B. AWS technical account manager (TAM)
- C. AWS Trusted Advisor
- D. AWS Discussion Forums

Correct Answer: A

Section: (none)**Explanation****Explanation/Reference:****QUESTION 306**

A company wants to build a new architecture with AWS services. The company needs to compare service costs at various scales.

Which AWS service, tool, or feature should the company use to meet this requirement?

- A. AWS Compute Optimizer
- B. AWS Pricing Calculator
- C. AWS Trusted Advisor
- D. Cost Explorer rightsizing recommendations

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://calculator.s3.amazonaws.com/index.html>

QUESTION 307

A company wants to be notified when its AWS Cloud costs or usage exceed defined thresholds.

Which AWS service will support these requirements?

- A. AWS Budgets
- B. Cost Explorer
- C. AWS CloudTrail
- D. Amazon Macie

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/aws-cost-management/aws-budgets/>



QUESTION 308

One benefit of On-Demand Amazon Elastic Compute Cloud (Amazon EC2) pricing is:

- A. the ability to bid for a lower hourly cost.
- B. paying a daily rate regardless of time used.
- C. paying only for time used.
- D. pre-paying for instances and paying a lower hourly rate.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

On-Demand Capacity Reservations are priced exactly the same as their equivalent (On-Demand) instance usage. If a Capacity Reservation is fully utilized, you only pay for instance usage and nothing towards the Capacity Reservation. If a Capacity Reservation is partially utilized, you pay for the instance usage and for the unused portion of the Capacity Reservation. Reference: <https://aws.amazon.com/ec2/pricing/on-demand/>

QUESTION 309

Which AWS service or feature provides an online, managed software catalog that helps users purchase and deploy thirdparty software?

- A. AWS Support
- B. AWS Marketplace
- C. Amazon EC2 private Amazon Machine Images (AMIs)
- D. AWS reseller programs

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

AWS Marketplace is a curated digital catalog that makes it easy for customers to find, buy, deploy, and manage the thirdparty software. Reference: <https://aws.amazon.com/marketplace/campaigns/software-procurement>**QUESTION 310**

How can AWS enable a company to control expenses as an application's usage changes unpredictably?

- A. AWS will refund the cost difference if a customer moves to larger servers.
- B. The application can be built to scale up or down automatically as resources are needed
- C. Spot instances will automatically be used if the price is lower than on-demand instances.
- D. Amazon CloudWatch will automatically predict what resources are needed.

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 311**

Which AWS service does AWS Snowball Edge natively support?

- A. AWS Server Migration Service (AWS SMS)
- B. Amazon Aurora
- C. AWS Trusted Advisor
- D. Amazon EC2

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/storage/building-a-linux-edge-computing-solution-with-aws-snowball-edge-andamazon-ec2/>**QUESTION 312**

Elasticity in the AWS Cloud refers to which of the following? (Choose two.)

- A. How quickly an Amazon EC2 instance can be restarted
- B. The ability to rightsize resources as demand shifts
- C. The maximum amount of RAM an Amazon EC2 instance can use
- D. The pay-as-you-go billing model
- E. How easily resources can be produced when they are needed

Correct Answer: BE**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://blog.turbonomic.com/blog/on-technology/cloud-elasticity-vs-cloud-scalability>**QUESTION 313**

A Cloud Practitioner is asked how to estimate the cost of using a new application on AWS.

What is the MOST appropriate response?

- A. Inform the user that AWS pricing allows for on-demand pricing.

- B. Direct the user to the AWS Simple Monthly Calculator for an estimate.
- C. Use Amazon QuickSight to analyze current spending on-premises.
- D. Use Amazon AppStream 2.0 for real-time pricing analytics.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/estimating-aws-resource-costs/>

QUESTION 314

A company is moving its on-premises key-value database to the AWS Cloud.

Which AWS service will support this use case?

- A. Amazon RDS
- B. Amazon ElastiCache
- C. Amazon DynamoDB
- D. Amazon Redshift

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

They chose Amazon DynamoDB as their key-value database.

Reference: <https://docs.aws.amazon.com/prescriptive-guidance/latest/strategy-database-migration/strategy-databasemigration.pdf>

QUESTION 315

Which managed AWS service provides real-time guidance on AWS security best practices?

- A. AWS X-Ray
- B. AWS Trusted Advisor
- C. Amazon CloudWatch
- D. AWS Systems Manager

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS offers premium services such as AWS Trusted Advisor, which provides real-time guidance to help you reduce cost, increase performance, and improve security.

Reference: <https://www.ibm.com/downloads/cas/2N40X4PQ>

QUESTION 316

A customer needs to run a MySQL database that easily scales.

Which AWS service should they use?

- A. Amazon Aurora
- B. Amazon Redshift
- C. Amazon DynamoDB
- D. Amazon ElastiCache

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/rds/aurora/serverless/>

QUESTION 317

An administrator needs to rapidly deploy a popular IT solution and start using it immediately.

Where can the administrator find assistance?

- A. AWS Well-Architected Framework documentation
- B. Amazon CloudFront
- C. AWS CodeCommit
- D. AWS Quick Start reference deployments

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Quick Starts are built by AWS solutions architects and partners to help you deploy popular technologies on AWS, based on AWS best practices for security and high availability. These accelerators reduce hundreds of manual procedures into just a few steps, so you can build your production environment quickly and start using it immediately.

Reference: <https://aws.amazon.com/quickstart/?quickstart-all.sort-by=item.additionalFields.updateDate&quickstart-all.sortorder=desc>

QUESTION 318

Which AWS Cost Management tool allows you to view the most granular data about your AWS bill?

- A. AWS Cost Explorer
- B. AWS Budgets
- C. AWS Cost and Usage report
- D. AWS Billing dashboard



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The Cost & Usage Report is your one-stop-shop for accessing the most granular data about your AWS costs and usage.

You can also load your cost and usage information into Amazon Athena, Amazon Redshift, AWS QuickSight, or a tool of your choice.

Reference: <https://aws.amazon.com/aws-cost-management/>

QUESTION 319

AWS Trusted Advisor can monitor and provide advice on what characteristics of an AWS account? (Choose two.)

- A. Compliance with security best practices
- B. Application performance
- C. Network utilization
- D. Cost optimization
- E. Compliance status

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/startups/optimizing-latency-and-bandwidth-for-aws-traffic/>

QUESTION 320

Which AWS service is used to automate configuration management using Chef and Puppet?

- A. AWS Config
- B. AWS OpsWorks
- C. AWS CloudFormation
- D. AWS Systems Manager

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/opsworks/>

AWS OpsWorks for Chef Automate

AWS OpsWorks for Chef Automate is a fully managed configuration management service that hosts Chef Automate, a suite of automation tools from Chef for configuration management, compliance and security, and continuous deployment. OpsWorks also maintains your Chef server by automatically patching, updating, and backing up your server. OpsWorks eliminates the need to operate your own configuration management systems or worry about maintaining its infrastructure. OpsWorks gives you access to all of the Chef Automate features, such as configuration and compliance management, which you manage through the Chef console or command line tools like Knife. It also works seamlessly with your existing Chef cookbooks.

Choose AWS OpsWorks for Chef Automate if you are an existing Chef user. [Learn more »](#)

AWS OpsWorks for Puppet Enterprise

AWS OpsWorks for Puppet Enterprise is a fully managed configuration management service that hosts Puppet Enterprise, a set of automation tools from Puppet for infrastructure and application management. OpsWorks also maintains your Puppet master server by automatically patching, updating, and backing up your server. OpsWorks eliminates the need to operate your own configuration management systems or worry about maintaining its infrastructure. OpsWorks gives you access to all of the Puppet Enterprise features, which you manage through the Puppet console. It also works seamlessly with your existing Puppet code.

Choose AWS OpsWorks for Puppet Enterprise if you are an existing Puppet user. [Learn more »](#)

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QUESTION 321

Which AWS benefit enables users to deploy cloud infrastructure that consists of multiple geographic regions connected by a network with low latency, high throughput, and redundancy?

- A. Economies of scale
- B. Security
- C. Elasticity
- D. Global reach

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/global-infrastructure.html>

QUESTION 322

Which AWS feature allows a company to take advantage of usage tiers for services across multiple member accounts?

- A. Service control policies (SCPs)
- B. Consolidated billing
- C. All Upfront Reserved Instances
- D. AWS Cost Explorer

Correct Answer: B

Section: (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/tco-calculator/>**QUESTION 323**

A company wants to have one AWS account for the entire company and individual accounts for each department.

Which AWS service should the company use to aggregate and manage all accounts?

- A. AWS Billing and Cost Management
- B. AWS Organizations
- C. AWS Identity and Access Management (IAM)
- D. AWS Resource Access Manager

Correct Answer: B**Section: (none)****Explanation****Explanation/Reference:**

Explanation:

Enterprise Support plan customers have the option to include multiple accounts in an aggregated monthly billing.

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidatedbilling-support.html>**QUESTION 324**

A user can optimize Amazon EC2 costs by performing which of the following tasks? (Choose two.)

- A. Implementing Auto Scaling groups to add and remove instances based on demand.
- B. Creating a policy to restrict IAM users from creating new instances.
- C. Setting a budget to limit spending on EC2 instances using AWS Budgets.
- D. Purchasing Reserved Instances.
- E. Adding EC2 instances to a second AWS Region that is geographically close to the end users.

Correct Answer: BC**Section: (none)****Explanation****Explanation/Reference:****QUESTION 325**

A company's security team requires that all Amazon EC2 workloads use approved Amazon Machine Images (AMIs).

Which AWS service should the company use to verify that the EC2 instances are using approved AMIs?

- A. Amazon CloudWatch
- B. Amazon Inspector
- C. AWS Config
- D. AWS Trusted Advisor

Correct Answer: C**Section: (none)****Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/devops/aws-config-checking-for-compliance-with-new-managed-rule-options/>**QUESTION 326**

An application deployed in the AWS Cloud has unpredictable usage patterns and is running workloads that cannot be interrupted.

What is the MOST cost-effective Amazon EC2 pricing option for this application?

- A. Dedicated Instances
- B. Spot Instances
- C. Reserved Instances
- D. On-Demand Instances

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/>

QUESTION 327

After selecting an Amazon EC2 Dedicated Host reservation, which pricing option would provide the largest discount?

- A. No upfront payment
- B. Hourly on-demand payment
- C. Partial upfront payment
- D. All upfront payment

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/reserved-instances/pricing/>

QUESTION 328

Which statement explains the benefit of agility in the AWS Cloud?

- A. Agility gives users the ability to host applications in multiple AWS Regions around the world.
- B. Agility gives users the ability to pay upfront to reduce cost.
- C. Agility provides customizable physical hardware at the lowest possible cost.
- D. Agility provides the means for users to provision resources in minutes.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://blog.clairvoyantsoft.com/true-economics-of-cloud-computing-part-1-what-it-really-means-to-be-agile-1ed14a1696a5>

QUESTION 329

When an Amazon EC2 instance is terminated, which AWS service can identify the user that made the API call?

- A. Amazon CloudWatch
- B. AWS CloudTrail
- C. AWS X-Ray
- D. AWS Identity and Access Management (IAM)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awscloudtrail/latest/userguide/clouptrail-user-guide.html>

Infrastructure Agility: Cloud allows companies to significantly decrease the time it takes to provision and de-provision IT infrastructure. You have the ability to start small, and scale up as needed and, if you face a scenario where you need to cut back, it's easy to make that happen. While a physical server could take days or weeks to procure and provision, a cloud server takes minutes. Using Apache Hadoop, Spark, and Hive in the cloud enables growth of data processing power in real-time. Faster time to market means faster time to revenue.

QUESTION 330

What does it mean if a user deploys a hybrid cloud architecture on AWS?

- A. All resources run using on-premises infrastructure.
- B. Some resources run on-premises and some run in a colocation center.
- C. All resources run in the AWS Cloud.
- D. Some resources run on-premises and some run in the AWS Cloud.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/hybrid/>

QUESTION 331

Which situation should be reported to the AWS Abuse team?

- A. In Availability Zone has a service disruption
- B. An intrusion attempt is made from an AWS IP address
- C. A user has trouble accessing an Amazon S3 bucket from an AWS IP address
- D. A user needs to change payment methods due to a compromise

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>

The AWS Trust & Safety team can assist you when AWS resources are used to engage in the following types of abusive behavior:

- **Spam:** You are receiving unwanted emails from an AWS-owned IP address, or AWS resources are used to spam websites or forums.
- **Port scanning:** Your logs show that one or more AWS-owned IP addresses are sending packets to multiple ports on your server. You also believe this is an attempt to discover unsecured ports.
- **Denial-of-service (DoS) attacks:** Your logs show that one or more AWS-owned IP addresses are used to flood ports on your resources with packets. You also believe that this is an attempt to overwhelm or crash your server or the software running on your server.
- **Intrusion attempts:** Your logs show that one or more AWS-owned IP addresses are used to attempt to log in to your resources.

QUESTION 332

Which of the following Reserved Instance (RI) pricing models provides the highest average savings compared to On-Demand pricing?

- A. One-year, No Upfront, Standard RI pricing
- B. One-year, All Upfront, Convertible RI pricing
- C. Three-year, All Upfront, Standard RI pricing
- D. Three-year, No Upfront, Convertible RI pricing

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/reserved-instances/pricing/>

QUESTION 333

What are the advantages of the AWS Cloud? (Choose two.)

- A. Fixed rate monthly cost
- B. No need to guess capacity requirements
- C. Increased speed to market
- D. Increased upfront capital expenditure
- E. Physical access to cloud data centers

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://data-flair.training/blogs/aws-advantages/>

QUESTION 334

A company wants durable storage for static content and infinitely scalable data storage infrastructure at the lowest cost. Which AWS service should the company choose?

- A. Amazon Elastic Block Store (Amazon EBS)
- B. Amazon S3
- C. AWS Storage Gateway
- D. Amazon Elastic File System (Amazon EFS)

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://aws.amazon.com/s3/faqs/>

QUESTION 335
Which of the following are responsibilities of the customer in the AWS Cloud? (Choose two.)

- A. Security in the cloud
- B. Configuration of AWS infrastructure devices
- C. Configuration of security groups on Amazon EC2 instances
- D. Security of the cloud
- E. Patches for the operating system of Amazon DynamoDB

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 336
Which AWS tools automatically forecast future AWS costs?

- A. AWS Support Center
- B. AWS Total Cost of Ownership (TCO) Calculator
- C. AWS Simple Monthly Calculator
- D. Cost Explorer

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ce-forecast.html>

QUESTION 337
A characteristic of edge locations is that they:

- A. host Amazon EC2 instances closer to users.
- B. help lower latency and improve performance for users.
- C. cache frequently changing data without reaching the origin server.
- D. refresh data changes daily.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://www.edureka.co/community/600/what-is-an-edge-location-in-aws>

QUESTION 338

Which AWS tool is used to compare the cost of running an application on-premises to running the application in the AWS Cloud?

- A. AWS Trusted Advisor
- B. AWS Simple Monthly Calculator
- C. AWS Total Cost of Ownership (TCO) Calculator
- D. Cost Explorer

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/tco-calculator/>

QUESTION 339

Which AWS service is an in-memory data store service?

- A. Amazon Aurora
- B. Amazon RDS
- C. Amazon DynamoDB
- D. Amazon ElastiCache

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon ElastiCache is a fully managed, in-memory caching service supporting flexible, real-time use cases. Reference:

<https://aws.amazon.com/elasticache/>

QUESTION 340

A company has deployed several relational databases on Amazon EC2 instances. Every month, the database software vendor releases new security patches that need to be applied to the databases. What is the MOST efficient way to apply the security patches?

- A. Connect to each database instance on a monthly basis, and download and apply the necessary security patches from the vendor.
- B. Enable automatic patching for the instances using the Amazon RDS console.
- C. In AWS Config, configure a rule for the instances and the required patch level.
- D. Use AWS Systems Manager to automate database patching according to a schedule.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/rds/faqs/>

QUESTION 341

Which statement best describes Elastic Load Balancing?

- A. It translates a domain name into an IP address using DNS.
- B. It distributes incoming application traffic across one or more Amazon EC2 instances.
- C. It collects metrics on connected Amazon EC2 instances.
- D. It automatically adjusts the number of Amazon EC2 instances to support incoming traffic.

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/elasticloadbalancing/>**QUESTION 342**

Which tool can be used to create alerts when the actual or forecasted cost of AWS services exceeds a certain threshold?

- A. Cost Explorer
- B. AWS Budgets
- C. AWS Cost and Usage Report
- D. AWS CloudTrail

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/getting-started/hands-on/control-your-costs-free-tier-budgets/>**QUESTION 343**

A company has a globally distributed user base. The company needs its application to be highly available and have low latency for end users. Which AWS architectural approach will MOST effectively support these requirements?

- A. Single-Region, Multi-AZ architecture
- B. Multi-Region, active-active architecture
- C. Multi-Region, active-passive architecture
- D. Single-Region, Single-AZ architecture

**Correct Answer:** B**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 344**

A company runs its workloads on premises. The company wants to forecast the cost of running a large application on AWS. Which AWS service or tool can the company use to obtain this information?

- A. AWS Pricing Calculator
- B. AWS Budgets
- C. AWS Trusted Advisor
- D. Cost Explorer

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ce-forecast.html>**QUESTION 345**

A large organization has a single AWS account.

What are the advantages of reconfiguring the single account into multiple AWS accounts? (Choose two.)

- A. It allows for administrative isolation between different workloads.

- B. Discounts can be applied on a quarterly basis by submitting cases in the AWS Management Console.
- C. Transitioning objects from Amazon S3 to Amazon S3 Glacier in separate AWS accounts will be less expensive.
- D. Having multiple accounts reduces the risks associated with malicious activity targeted at a single account.
- E. Amazon QuickSight offers access to a cost tool that provides application-specific recommendations for environments running in multiple accounts.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 346

What AWS service would be used to centrally manage AWS access across multiple accounts?

- A. AWS Service Catalog
- B. AWS Config
- C. AWS Trusted Advisor
- D. AWS Organizations

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

To improve control over your AWS environment, you can use AWS Organizations to create groups of accounts, and then attach policies to a group to ensure the correct policies are applied across the accounts without requiring custom scripts and manual processes.

Reference: <https://aws.amazon.com/organizations/>

QUESTION 347

Which AWS service can run a managed PostgreSQL database that provides online transaction processing (OLTP)?

- A. Amazon DynamoDB
- B. Amazon Athena
- C. Amazon RDS
- D. Amazon EMR

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/rds/postgresql/>

QUESTION 348

A company has decided to migrate its production workloads to the AWS Cloud.

Which actions can help reduce operational costs as part of the migration? (Choose two.)

- A. Reduce overprovisioned instances.
- B. Rehost all third-party licenses on AWS.
- C. Implement a highly available architecture.
- D. Use managed services.
- E. Improve application security.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:**QUESTION 349**

Which of the following allows an application running on an Amazon EC2 instance to securely write data to an Amazon S3 bucket without using long term credentials?

- A. Amazon Cognito
- B. AWS Shield
- C. AWS IAM role
- D. AWS IAM user access key

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 350**

The AWS Cloud's multiple Regions are an example of:

- A. agility.
- B. global infrastructure.
- C. elasticity.
- D. pay-as-you-go pricing.

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 351**

A company wants to ensure its infrastructure is designed for fault tolerance and business continuity in the event of an environmental disruption.

Which AWS infrastructure component should the company replicate across?

- A. Edge locations
- B. Availability Zones
- C. Regions
- D. Amazon Route 53

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: https://d36cz9buwru1tt.cloudfront.net/AWS_Building_Fault_Tolerant_Applications.pdf (3)

QUESTION 352

A company wants to provide managed Windows virtual desktops and applications to its remote employees over secure network connections.

Which AWS services can the company use to meet these requirements? (Choose two.)

- A. Amazon Connect
- B. Amazon AppStream 2.0
- C. Amazon WorkSpaces
- D. AWS Site-to-Site VPN

E. Amazon Elastic Container Service (Amazon ECS)

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/workspaces/?workspaces-blogs.sortby=item.additionalFields.createdDate&workspaces-blogs.sort-order=desc>

QUESTION 353

How should a customer forecast the future costs for running a new web application?

- A. Amazon Aurora Backtrack
- B. Amazon CloudWatch Billing Alarms
- C. AWS Simple Monthly Calculator
- D. AWS Cost and Usage report

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

You can use Cost explorer which is part of Cost and Usage report to forecast future costs of running an application.

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ce-forecast.html>

QUESTION 354

Which AWS service allows companies to connect an Amazon VPC to an on-premises data center?

- A. AWS VPN
- B. Amazon Redshift
- C. API Gateway
- D. Amazon Connect

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Direct Connect enables you to securely connect your AWS environment to your on-premises data center or office location over a standard 1 gigabit or 10 gigabit Ethernet fiber-optic connection. AWS Direct Connect offers dedicated high speed, low latency connection, which bypasses internet service providers in your network path. An AWS Direct Connect location provides access to Amazon Web Services in the region it is associated with, as well as access to other US regions. AWS Direct Connect allows you to logically partition the fiber-optic connections into multiple logical connections called Virtual Local Area Networks (VLAN). You can take advantage of these logical connections to improve security, differentiate traffic, and achieve compliance requirements.

Reference: <https://aws.amazon.com/getting-started/projects/connect-data-center-to-aws/>

QUESTION 355

What is the AWS customer responsible for according to the AWS shared responsibility model?

- A. Physical access controls
- B. Data encryption
- C. Secure disposal of storage devices
- D. Environmental risk management

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 356

Which AWS service allows users to identify the changes made to a resource over time?

- A. Amazon Inspector
- B. AWS Config
- C. AWS Service Catalog
- D. AWS IAM

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/config/latest/developerguide/view-manage-resource.html>

QUESTION 357

Which of the following tasks is required to deploy a PCI-compliant workload on AWS?

- A. Use any AWS service and implement PCI controls at the application layer
- B. Use an AWS service that is in-scope for PCI compliance and raise an AWS support ticket to enable PCI compliance at the application layer
- C. Use any AWS service and raise an AWS support ticket to enable PCI compliance on that service
- D. Use an AWS service that is in scope for PCI compliance and apply PCI controls at the application layer

Correct Answer: D

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/securityhub/latest/userguide/securityhub-pci-controls.html>

QUESTION 358

What are the multiple, isolated locations within an AWS Region that are connected by low-latency networks called?

- A. AWS Direct Connects
- B. Amazon VPCs
- C. Edge locations
- D. Availability Zones

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Each Region is completely independent. Each Availability Zone is isolated, but the Availability Zones in a Region are connected through low-latency links. A Local Zone is an AWS infrastructure deployment that places select services closer to your end users. A Local Zone is an extension of a Region that is in a different location from your Region. It provides a highbandwidth backbone to the AWS infrastructure and is ideal for latency-sensitive applications, for example machine learning.

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>

QUESTION 359

Which of the following can be used to identify a specific user who stopped an Amazon EC2 instance?

- A. AWS CloudTrail
- B. Amazon Inspector
- C. Amazon CloudWatch

D. VPC Flow Logs

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/monitoring-system-instance-status-check.html>

QUESTION 360

A company needs to send time-critical messages to multiple subscribers through a push mechanism.
Which AWS service should the company use?

- A. Amazon Kinesis
- B. Amazon MQ
- C. Amazon Simple Queue Service (Amazon SQS)
- D. Amazon Simple Notification Service (Amazon SNS)

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Amazon SNS allows applications to send time-critical messages to multiple subscribers through a “push” mechanism Reference: <https://aws.amazon.com/sns/faqs/>

QUESTION 361

Where should a company go to search software listings from independent software vendors to find, test, buy and deploy software that runs on AWS?

- A. AWS Marketplace
- B. Amazon Lumberyard
- C. AWS Artifact
- D. Amazon CloudSearch

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:
AWS Marketplace is a digital catalog with thousands of software listings from independent software vendors that make it easy to find, test, buy, and deploy software that runs on AWS. Reference: <https://aws.amazon.com>

QUESTION 362

What is one of the core principles to follow when designing a highly available application in the AWS Cloud?

- A. Design using a serverless architecture
- B. Assume that all components within an application can fail
- C. Design AWS Auto Scaling into every application
- D. Design all components using open-source code

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 363

AWS Enterprise Support users have access to which service or feature that is not available to users with other AWS Support plans?

- A. AWS Trusted Advisor
- B. AWS Support case
- C. Concierge team
- D. Amazon Connect

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 364

Making frequent, small, reversible changes is a design principle of which pillar of the AWS Well-Architected Framework?

- A. Reliability
- B. Operational excellence
- C. Performance efficiency
- D. Cost optimization

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Make frequent, small, reversible changes.

Reference: <https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>



QUESTION 365

A company operating in the AWS Cloud requires separate invoices for specific environments, such as development, testing, and production.
How can this be achieved?

- A. Use multiple AWS accounts
- B. Use resource tagging
- C. Use multiple VPCs
- D. Use Cost Explorer

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 366

What is the purpose of having an internet gateway within a VPC?

- A. To create a VPN connection to the VPC
- B. To allow communication between the VPC and the Internet
- C. To impose bandwidth constraints on internet traffic
- D. To load balance traffic from the Internet across Amazon EC2 instances

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:**QUESTION 367**

Which AWS service or feature is used to send both text and email messages from distributed applications?

- A. Amazon Simple Notification Service (Amazon SNS)
- B. Amazon Simple Email Service (Amazon SES)
- C. Amazon CloudWatch alerts
- D. Amazon Simple Queue Service (Amazon SQS)

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/sns/faqs/>

QUESTION 368

Which of the following are economic benefits of using AWS Cloud? (Choose two.)

- A. Consumption-based pricing
- B. Perpetual licenses
- C. Economies of scale
- D. AWS Enterprise Support at no additional cost
- E. Bring-your-own-hardware model

Correct Answer: AC**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 369**

Which AWS service provides alerts when an AWS event may impact a company's AWS resources?

- A. AWS Personal Health Dashboard
- B. AWS Service Health Dashboard
- C. AWS Trusted Advisor
- D. AWS Infrastructure Event Management

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

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.

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

QUESTION 370

A company is running an ecommerce application hosted in Europe. To decrease latency for users who access the website from other parts of the world, the company would like to cache frequently accessed static content closer to the users. Which AWS service will support these requirements?

- A. Amazon ElastiCache

- B. Amazon CloudFront
- C. Amazon Elastic File System (Amazon EFS)
- D. Amazon Elastic Block Store (Amazon EBS)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon CloudFront employs a global network of edge locations and regional edge caches that cache copies of your content close to your viewers. Amazon CloudFront ensures that end-user requests are served by the closest edge location. As a result, viewer requests travel a short distance, improving performance for your viewers. For files not cached at the edge locations and the regional edge caches, Amazon CloudFront keeps persistent connections with your origin servers so that those files can be fetched from the origin servers as quickly as possible. Reference: <https://aws.amazon.com/cloudfront/faqs/>

QUESTION 371

Which of the following security measures protect access to an AWS account? (Choose two.)

- A. Enable AWS CloudTrail.
- B. Grant least privilege access to IAM users.
- C. Create one IAM user and share with many developers and users.
- D. Enable Amazon CloudFront.
- E. Activate multi-factor authentication (MFA) for privileged users.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

If you decided to create service accounts (that is, accounts used for programmatic access by applications running outside of the AWS environment) and generate access keys for them, you should create a dedicated service account for each use case. This will allow you to restrict the associated policy to only the permissions needed for the particular use case, limiting the blast radius if the credentials are compromised. For example, if a monitoring tool and a release management tool both require access to your AWS environment, create two separate service accounts with two separate policies that define the minimum set of permissions for each tool.

Reference: <https://aws.amazon.com/blogs/security/guidelines-for-protecting-your-aws-account-while-using-programmaticaccess/>

QUESTION 372

Which of the following are AWS security best practices for using AWS Identity and Access Management (IAM) to manage an AWS account root user? (Choose two.)

- A. Set up multi-factor authentication (MFA) for the root user.
- B. Remove all IAM policies from the root user.
- C. Delete the root user access keys.
- D. Use the root user for daily tasks.
- E. Assign a read-only access policy to the root user.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>

QUESTION 373

Which AWS services are eligible for a Compute Savings Plan? (Choose two.)

- A. AWS Lambda
- B. Amazon RDS
- C. Amazon VPC
- D. Amazon DynamoDB
- E. Amazon EC2

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Compute Savings Plans provide the most flexibility and help to reduce your costs by up to 66%. These plans automatically apply to EC2 instance usage regardless of instance family, size, AZ, Region, OS or tenancy, and also apply to Fargate or Lambda usage.
Reference: <https://aws.amazon.com/savingsplans/compute-pricing/>

QUESTION 374

A company believes an unauthorized user copied data from an Amazon S3 bucket to their own account.
Which AWS service will record the actions taken by the user?

- A. Amazon CloudWatch
- B. AWS CloudTrail
- C. AWS Infrastructure Event Management
- D. AWS Systems Manager

Correct Answer: B

Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/AmazonS3/latest/userguide/security-best-practices.html>

QUESTION 375

Under the shared responsibility model; which of the following areas are the customer's responsibility? (Choose two.)

- A. Firmware upgrades of network infrastructure
- B. Patching of operating systems
- C. Patching of the underlying hypervisor
- D. Physical security of data centers
- E. Configuration of the security group

Correct Answer: BE

Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 376

Which databases are available on Amazon RDS? (Choose two.)

- A. Sybase
- B. Microsoft SQL Server
- C. IBM Db2
- D. MongoDB
- E. PostgreSQL

Correct Answer: DE

Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/rds/>

QUESTION 377

Which AWS services or features give users the ability to create a network connection between two VPCs? (Choose two.)

- A. VPC endpoints
- B. Amazon Route 53
- C. VPC peering
- D. AWS Direct Connect
- E. AWS Transit Gateway

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/vpc/latest/privatelink/vpc-endpoints.html>
<https://docs.aws.amazon.com/vpc/latest/peering/what-is-vpc-peering.html>

QUESTION 378

Which of the following are benefits of running a database on Amazon RDS compared to an on-premises database? (Choose two.)

- A. RDS backups are managed by AWS.
- B. RDS supports any relational database.
- C. RDS has no database engine licensing costs.
- D. RDS database compute capacity can be easily scaled.
- E. RDS inbound traffic control (for example, security groups) is managed by AWS.

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.missioncloud.com/blog/resource-the-advantages-of-running-sql-server-on-aws>

QUESTION 379

A company wants to improve its security and audit posture by limiting Amazon EC2 inbound access.

What should the company use to access instances remotely instead of opening inbound SSH ports and managing SSH keys?

- A. EC2 key pairs
- B. AWS Systems Manager Session Manager
- C. AWS Identity and Access Management (IAM)
- D. Network ACLs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/systems-manager/latest/userguide/session-manager.html>

QUESTION 380

Which AWS hybrid storage service enables a user's on-premises applications to seamlessly use AWS Cloud storage?

- A. AWS Backup

- B. Amazon Connect
- C. AWS Direct Connect
- D. AWS Storage Gateway

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/storagegateway/?whats-new-cards.sort-by=item.additionalFields.postDateTime&whatsnew-cards.sort-order=desc>

QUESTION 381

Which of the following is a best practice for creating policies for IAM users?

- A. Start with a large set of permissions and remove the permissions that are not required.
- B. Use only Amazon managed policies.
- C. Start with a minimum set of permissions and grant additional permissions as necessary.
- D. Attach policies directly to each user individually.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>

Grant least privilege

VCEup

When you create IAM policies, follow the standard security advice of granting *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.

Start with a minimum set of permissions and grant additional permissions as necessary. Doing so is more secure than starting with permissions that are too lenient and then trying to tighten them later.

QUESTION 382

Which of the following are benefits of AWS Global Accelerator? (Choose two.)

- A. Reduced cost to run services on AWS
- B. Improved availability of applications deployed on AWS
- C. Higher durability of data stored on AWS
- D. Decreased latency to reach applications deployed on AWS
- E. Higher security of data stored on AWS

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/global-accelerator/faqs/>

QUESTION 383

A batch workload takes 5 hours to finish on an Amazon EC2 instance. The amount of data to be processed doubles monthly and the processing time is proportional. What is the best cloud architecture to address this consistently growing demand?

- A. Run the application on a bigger EC2 instance size.
- B. Switch to an EC2 instance family that better matches batch requirements.
- C. Distribute the application across multiple EC2 instances and run the workload in parallel.
- D. Run the application on a bare metal EC2 instance.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 384

If a customer needs to audit the change management of AWS resources, which of the following AWS services should the customer use?

- A. AWS Config
- B. AWS Trusted Advisor
- C. Amazon CloudWatch
- D. Amazon Inspector

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:
AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations. With Config, you can review changes in configurations and relationships between AWS resources, dive into detailed resource configuration histories, and determine your overall compliance against the configurations specified in your internal guidelines. This enables you to simplify compliance auditing, security analysis, change management, and operational troubleshooting.

Reference: <https://aws.amazon.com/config/>

QUESTION 385

Which AWS service is a managed NoSQL database?

- A. Amazon Redshift
- B. Amazon DynamoDB
- C. Amazon Aurora
- D. Amazon RDS for MariaDB

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/dynamodb/>

QUESTION 386

Which service should a customer use to consolidate and centrally manage multiple AWS accounts?

- A. AWS IAM
- B. AWS Organizations
- C. AWS Schema Conversion Tool

D. AWS Config

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/organizations/>**Benefits****Quickly scale your workloads**

AWS Organizations helps you quickly scale your environment by allowing you to programmatically create new AWS accounts. An AWS account is a container for your resources. Using multiple accounts gives you built-in security boundaries. It also empowers your teams by providing them designated accounts, and you can automatically provision resources and permissions using AWS CloudFormation StackSets.

Provide custom environments for different workloads

You can use Organizations to apply policies that give your teams the freedom to build with the resources they need, while staying within the safe boundaries you set. By organizing accounts into organizational units (OU), which are groups of accounts that serve an application or service, you can apply service control policies (SCPs) to create targeted governance boundaries for your OUs.

Centrally secure and audit your environment across accounts

Manage auditing at scale using AWS CloudTrail to create an immutable log of all events from accounts. You can enforce and monitor backup requirements with AWS Backup, or centrally define your recommended configuration criteria across resources, AWS Regions, and accounts with AWS Config. You can also use AWS Control Tower to establish cross-account security audits, or manage and view policies applied across accounts.

QUESTION 387

Which AWS service is designed to help users who want to use machine learning for natural language processing (NLP) but do not have experience in machine learning?

- A. Amazon Comprehend
- B. Amazon SageMaker
- C. AWS Deep Learning AMIs (DLAMI)
- D. Amazon Rekognition

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/comprehend/>**QUESTION 388**

Which AWS service or component allows inbound traffic from the internet to access a VPC?

- A. Internet gateway
- B. NAT gateway
- C. AWS WAF
- D. VPC peering

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html

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. For more information, see [Enable internet access](#).

An internet gateway supports IPv4 and IPv6 traffic. It does not cause availability risks or bandwidth constraints on your network traffic. There's no additional charge for having an internet gateway in your account.

QUESTION 389

Which AWS service provides automated backups of data by default?

- A. Amazon S3
- B. Amazon Aurora
- C. Amazon ElastiCache for Memcached
- D. Amazon Elastic File System (Amazon EFS)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/backup-restore/>

QUESTION 390

AWS can relieve a company's IT staff of which of the following IT tasks? (Choose two.)

- A. Patching database software
- B. Storage capacity planning
- C. Creating database schemas
- D. Setting up access controls for data
- E. Writing application code

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 391

Which AWS service provides the ability to host a NoSQL database in the AWS Cloud?

- A. Amazon Aurora
- B. Amazon DynamoDB

- C. Amazon RDS
- D. Amazon Redshift

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/nosql/>

QUESTION 392

According to the AWS shared responsibility model, what is the sole responsibility of AWS?

- A. Application security
- B. Edge location management
- C. Patch management
- D. Client-side data

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Client-side data, application security is the sole responsibility of the customer. Patch management is a shared responsibility.
That leaves us with edge location management and since this is out of the control of the customer, AWS is the one responsible for it.
Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 393

A company needs to transfer a large volume of data from an on-premises data center to the AWS Cloud. The company's internet connectivity is slow and unreliable. Which AWS service can facilitate this data transfer?

- A. Amazon S3 Glacier
- B. AWS Snowball
- C. AWS Storage Gateway
- D. Amazon Elastic File System (Amazon EFS)

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/getting-started/projects/migrate-petabyte-scale-data/servicescosts/#:~:text=Description%3A%20Snowball%20is%20a%20petabyte,transfer%20times%2C%20and%20security%20concerns>

AWS Snowball Amazon S3

Description: Snowball is a petabyte-scale data transport solution that uses secure appliances to transfer large amounts of data into and out of the AWS cloud. Using Snowball addresses common challenges with large-scale data transfers including high network costs, long transfer times, and security concerns.

How Pricing Works: Snowball pricing has four main cost components: (1) a service fee for each job you run, (2) data transfer fees from Amazon S3, (3) the shipping costs to transport a Snowball appliance to and from your address, and (4) the number of days you keep Snowball onsite. For details on each cost component, see [AWS Snowball Pricing](#).

Example: Let's say you want to import 10 TB into the US East Region. A 50 TB Snowball device would cost \$200 for the first 10 days, and \$15 days thereafter. So, the Snowball import cost for 10 TB would be a onetime \$200 (assuming 10 days or fewer). Data transfer-in would be \$0.00 (free). Additional charges including S3 requests made during the import and monthly charges for S3 Standard will apply. These charges will vary based on the number of objects and Region used. The shipping cost would be variable depending on your location.

QUESTION 394

A database administrator is trying to determine who deleted a critical Amazon Redshift cluster. Which AWS service helps with monitoring and retaining this type of account activity?

- A. AWS CloudTrail
- B. AWS Organizations
- C. AWS Identity and Access Management (IAM)
- D. AWS Trusted Advisor

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 395

A company has all of its servers in the us-east-1 Region. The company is considering the deployment of additional servers in a different Region. Which AWS tool should the company use to find pricing information for other Regions?

- A. Cost Explorer
- B. AWS Budgets
- C. AWS Purchase Order Management
- D. AWS Pricing Calculator

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/aws-cost-management/aws-purchase-order-management/>

QUESTION 396

Which AWS service or resource is serverless?

- A. AWS Lambda

- B. Amazon EC2 instances
- C. Amazon Lightsail
- D. Amazon ElastiCache

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://blogs.itemis.com/en/serverless-services-on-aws>

QUESTION 397

Which AWS service helps identify malicious or unauthorized activities in AWS accounts and workloads?

- A. Amazon Rekognition
- B. AWS Trusted Advisor
- C. Amazon GuardDuty
- D. Amazon CloudWatch

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/guardduty/>

QUESTION 398

What is an advantage of deploying an application across multiple Availability Zones?

- A. There is a lower risk of service failure if a natural disaster causes a service disruption in a given AWS Region.
- B. The application will have higher availability because it can withstand a service disruption in one Availability Zone.
- C. There will be better coverage as Availability Zones are geographically distant and can serve a wider area.
- D. There will be decreased application latency that will improve the user experience.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>

QUESTION 399

Which of the following are advantages of AWS consolidated billing? (Choose two.)

- A. The ability to receive one bill for multiple accounts
- B. Service limits increasing by default in all accounts
- C. A fixed discount on the monthly bill
- D. Potential volume discounts, as usage in all accounts is combined
- E. The automatic extension of the master account's AWS support plan to all accounts

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>

QUESTION 400

Under the shared responsibility model, which of the following is a shared control between a customer and AWS?

- A. Physical controls
- B. Patch management
- C. Zone security
- D. Data center auditing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 401

A company is piloting a new customer-facing application on Amazon Elastic Compute Cloud (Amazon EC2) for one month. What pricing model is appropriate?

- A. Reserved Instances
- B. Spot Instances
- C. On-Demand Instances
- D. Dedicated Hosts

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/>

VCEup

On-Demand

With On-Demand instances, you pay for compute capacity by the hour or the second depending on which instances you run. No longer-term commitments or upfront payments are needed. You can increase or decrease your compute capacity depending on the demands of your application and only pay the specified per hourly rates for the instance you use.

On-Demand instances are recommended for:

- Users that prefer the low cost and flexibility of Amazon EC2 without any up-front payment or long-term commitment
- Applications with short-term, spiky, or unpredictable workloads that cannot be interrupted
- Applications being developed or tested on Amazon EC2 for the first time

See [On-Demand pricing](#) »

QUESTION 402

An Amazon EC2 instance previously used for development is inaccessible and no longer appears in the AWS Management Console. Which AWS service should be used to determine what action made this EC2 instance inaccessible?

- A. Amazon CloudWatch Logs
- B. AWS Security Hub
- C. Amazon Inspector
- D. AWS CloudTrail

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/troubleshooting-launch.html>

QUESTION 403

Which is the MINIMUM AWS Support plan that allows for one-hour target response time for support cases?

- A. Enterprise
- B. Business
- C. Developer
- D. Basic

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 404

Which pillar of the AWS Well-Architected Framework focuses on the ability to run workloads effectively, gain insight into operations, and continuously improve supporting processes and procedures?

- A. Cost optimization
- B. Reliability
- C. Operational excellence
- D. Performance efficiency

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://wa.aws.amazon.com/wellarchitected/2020-07-02T19-33-23/wat.pillar.operationalExcellence.en.html#:~:text=The%20Operational%20Excellence%20pillar%20includes,procedures%20to%20deliver%20business%20value>

QUESTION 405

Which AWS service can a company use to create a relational database in the AWS Cloud?

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon ElastiCache
- D. Amazon S3

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: [**QUESTION 406**](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide>Welcome.html</div><div data-bbox=)

Which AWS service would a customer use with a static website to achieve lower latency and high transfer speeds?

- A. AWS Lambda
- B. Amazon DynamoDB Accelerator
- C. Amazon Route 53
- D. Amazon CloudFront

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

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. CloudFront is integrated with AWS – both physical locations that are directly connected to the AWS global infrastructure, as well as other AWS services. Reference: <https://aws.amazon.com/cloudfront/>

QUESTION 407

Which of the following services provides on-demand access to AWS compliance reports?

- A. AWS IAM
- B. AWS Artifact
- C. Amazon GuardDuty
- D. AWS KMS

**Correct Answer:** B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and select online agreements. Reports available in AWS Artifact include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) reports, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls. Agreements available in AWS Artifact include the Business Associate Addendum (BAA) and the Nondisclosure Agreement (NDA).

Reference: <https://aws.amazon.com/artifact/>**QUESTION 408**

Which AWS service uses edge locations?

- A. Amazon Aurora
- B. AWS Global Accelerator
- C. Amazon Connect
- D. AWS Outposts

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/global-accelerator/>

Benefits of AWS Global Accelerator

Accelerate latency-sensitive applications

Your network latency is driven by the number of networks your user data needs to hop and the bandwidth available along the path to your AWS application endpoints. These network variables create opportunities for internet congestion to delay connections and lose data. AWS Global Accelerator combines advanced networking features with the dedicated AWS Global Network to improve your application network performance by up to 60%. TCP connections are terminated at the AWS Edge location closest to your users, instead of at your endpoint, accelerating data transfers globally. Once on the AWS network, automated routing directs your user traffic to the most performant AWS endpoints in Regions and/or Availability Zones. For UDP workloads, the AWS network provides the global capacity needed to avoid packet loss and jitter during traffic spikes.

QUESTION 409

Which of the following services could be used to deploy an application to servers running on-premises? (Choose two.)

- A. AWS Elastic Beanstalk
- B. AWS OpsWorks
- C. AWS CodeDeploy
- D. AWS Batch
- E. AWS X-Ray

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/codedeploy/latest/userguide/instances-on-premises.html>

Working with on-premises instances for CodeDeploy

[PDF](#) | [Kindle](#) | [RSS](#)

An on-premises instance is any physical device that is not an Amazon EC2 instance that can run the CodeDeploy agent and connect to public AWS service endpoints.

Deploying a CodeDeploy application revision to an on-premises instance involves two major steps:

- Step 1 – Configure each on-premises instance, register it with CodeDeploy, and then tag it.
- Step 2 – Deploy application revisions to the on-premises instance.

<https://aws.amazon.com/blogs/aws/opsworks-on-prem-and-existing-instances/>

QUESTION 410

Which of the following is an AWS best practice for managing an AWS account root user?

- A. Keep the root user password with the security team.
- B. Enable multi-factor authentication (MFA) for the root user.
- C. Create an access key for the root user.
- D. Keep the root user password consistent for compliance purposes.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>

QUESTION 411

Under the AWS shared responsibility model, AWS is responsible for which security-related task?

- A. Lifecycle management of IAM credentials
- B. Physical security of global infrastructure
- C. Encryption of Amazon EBS volumes
- D. Firewall configuration

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>

QUESTION 412

Which AWS service provides recommendations for rightsizing AWS resources such as Amazon EC2 instances, Amazon Elastic Block Store (Amazon EBS) volumes, and Amazon RDS databases to help users reduce costs?

- A. Amazon Inspector
- B. AWS Trusted Advisor
- C. AWS Service Health Dashboard
- D. Amazon Forecast

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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



Benefits

Personalized view of service health	Proactive notifications	Detailed troubleshooting guidance
The Personal Health Dashboard gives you a personalized view of the status of AWS services that power your applications. Use the Personal Health Dashboard to learn about specific operational issues that affect your account. For example, if you receive an event for a lost Amazon Elastic Block Store (EBS) volume associated with one of your Amazon EC2 instances, you can use the event to quickly view the status of your impacted resources, and then troubleshoot and determine remediation steps.	Unlike the Service Health Dashboard, you can use the Personal Health Dashboard to create alerts for specific events that might affect your account. You can set up alerts across multiple channels, including email and mobile notifications, to receive timely and relevant information to help plan for scheduled changes. For example, if a maintenance event is scheduled for one of your Amazon EC2 instances, you can receive an alert with information to help you plan for, and proactively address any issues for the upcoming change.	When you get an alert, it includes remediation details and specific guidance so that you can take action for events that affect your resources. For example, if a hardware issue affects one of your Amazon Elastic Block Store (EBS) volumes, the alert includes a list of affected resources, and recommendations and help links to restore your volume from a snapshot. This helps you reduce the amount of time to resolve issues.

QUESTION 413

When designing a typical three-tier web application, which AWS services and/or features improve availability and reduce the impact failures? (Choose two.)

- A. AWS Auto Scaling for Amazon EC2 instances
- B. Amazon VPC subnet ACLs to check the health of a service
- C. Distributed resources across multiple Availability Zones
- D. AWS Server Migration Service (AWS SMS) to move Amazon EC2 instances into a different Region
- E. Distributed resources across multiple AWS points of presence

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf

QUESTION 414

Which Amazon EC2 instance pricing model can provide discounts of up to 90%?

- A. Reserved Instances
- B. On-Demand
- C. Dedicated Hosts
- D. Spot Instances

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/spot/>

QUESTION 415

Which AWS service gives users on-demand, self-service access to AWS compliance control reports?

- A. AWS Config

- B. Amazon GuardDuty
- C. AWS Trusted Advisor
- D. AWS Artifact

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/artifact>

AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and select online agreements. Reports available in AWS Artifact include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) reports, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls. Agreements available in AWS Artifact include the Business Associate Addendum (BAA) and the Nondisclosure Agreement (NDA).

QUESTION 416

Which AWS service provides a simple and scalable shared file storage solution for use with Linux-based AWS and on-premises servers?

- A. Amazon S3
- B. Amazon Glacier
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon Elastic File System (Amazon EFS)



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon Elastic File System (Amazon EFS) provides a simple, scalable, fully managed elastic NFS file system for use with AWS Cloud services and on-premises resources. It is built to scale on demand to petabytes without disrupting applications, growing and shrinking automatically as you add and remove files, eliminating the need to provision and manage capacity to accommodate growth.

Amazon EFS is designed to provide the throughput, IOPS, and low latency needed for Linux workloads. Throughput and IOPS scale as a file system grows and can burst to higher throughput levels for short periods of time to support the unpredictable performance needs of file workloads. For the most demanding workloads, Amazon EFS can support performance over 10 GB/sec and up to 500,000 IOPS.

QUESTION 417

Which AWS service is always free of charge for users?

- A. Amazon S3
- B. Amazon Aurora
- C. Amazon EC2
- D. AWS Identity and Access Management (IAM)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/free/free-tier-faqs/>

QUESTION 418

Which of the following are components of Amazon VPC? (Choose two.)

- A. Objects
- B. Subnets
- C. Buckets
- D. Internet gateways
- E. Access key

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://subscription.packtpub.com/book/virtualization_and_cloud/9781788293723/3/ch03lvl1sec26/vpccomponents

QUESTION 419

A company wants to build its new application workloads in the AWS Cloud instead of using on-premises resources.

What expense can be reduced using the AWS Cloud?

- A. The cost of writing custom-built Java or Node .js code
- B. Penetration testing for security
- C. hardware required to support new applications
- D. Writing specific test cases for third-party applications.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/pricing/cost-optimization/>

QUESTION 420

Which AWS services can be used to store files? (Choose two.)

- A. Amazon S3
- B. AWS Lambda
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon SageMaker
- E. AWS Storage Gateway

Correct Answer: ACE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://intellipaat.com/community/58120/which-aws-services-can-be-used-to-store-files>



These AWS services can be used to store files:

- Amazon S3
- Amazon Elastic Block Store
- Amazon Elastic File System
- Amazon FSx for Lustre
- Amazon FSx for Windows File Server
- Amazon S3 Glacier
- AWS Storage Gateway

QUESTION 421

Which AWS cloud architecture principle states that systems should reduce interdependencies?

- A. Scalability
- B. Services, not servers
- C. Removing single points of failure
- D. Loose coupling

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 422

Which tasks are the customer's responsibility in the AWS shared responsibility model? (Choose two.)

- A. Infrastructure facilities access management
- B. Cloud infrastructure hardware lifecycle management
- C. Configuration management of user's applications
- D. Networking infrastructure protection
- E. Security groups configuration

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>

QUESTION 423

Which duty is a responsibility of AWS under the AWS shared responsibility model?

- A. Identity and access management (IAM)
- B. Server-side encryption (SSE)
- C. Firewall configuration
- D. Maintaining physical hardware

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:
 Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 424

Which of the following is an AWS Well-Architected Framework design principle related to reliability?

- A. Deployment to a single Availability Zone
- B. Ability to recover from failure
- C. Design for cost optimization
- D. Perform operations as code

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>

3. Reliability

The Reliability pillar encompasses the ability of a workload to perform its intended function correctly and consistently when it's expected to. This includes the ability to operate and test the workload through its total lifecycle. You can find prescriptive guidance on implementation in the [Reliability Pillar whitepaper](#).

Design Principles

There are five design principles for reliability in the cloud:

- Automatically recover from failure
- Test recovery procedures
- Scale horizontally to increase aggregate workload availability
- Stop guessing capacity
- Manage change in automation



QUESTION 425

Which of the following provides the ability to share the cost benefits of Reserved Instances across AWS accounts?

- A. AWS Cost Explorer between AWS accounts
- B. Linked accounts and consolidated billing
- C. Amazon Elastic Compute Cloud (Amazon EC2) Reserved Instance Utilization Report
- D. Amazon EC2 Instance Usage Report between AWS accounts

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The way that Reserved Instance discounts apply to accounts in an organization's consolidated billing family depends on whether Reserved Instance sharing is turned on or off for the account. By default, Reserved Instance sharing for all accounts in an organization is turned on. You can change this setting by Turning Off Reserved Instance Sharing for an account.

The capacity reservation for a Reserved Instance applies only to the account the Reserved Instance was purchased on, regardless of whether Reserved Instance sharing is turned on or off.

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/ec2-ri-consolidated-billing/>

QUESTION 426

Which design principle is achieved by following the reliability pillar of the AWS Well-Architected Framework?

- A. Vertical scaling

- B. Manual failure recovery
- C. Testing recovery procedures
- D. Changing infrastructure manually

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>

QUESTION 427

Which benefit of the AWS Cloud supports matching the supply of resources with changing workload demands?

- A. Security
- B. Reliability
- C. Elasticity
- D. High availability

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://wa.aws.amazon.com/wat.map.en.html>

QUESTION 428

The AWS Cost Management tools give users the ability to do which of the following? (Choose two.)

- A. Terminate all AWS resources automatically if budget thresholds are exceeded.
- B. Break down AWS costs by day, service, and linked AWS account.
- C. Create budgets and receive notifications if current or forecasted usage exceeds the budgets.
- D. Switch automatically to Reserved Instances or Spot Instances, whichever is most cost-effective.
- E. Move data stored in Amazon S3 to a more cost-effective storage class.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 429

Which controls does the customer fully inherit from AWS in the AWS shared responsibility model?

- A. Patch management controls
- B. Awareness and training controls
- C. Physical and environmental controls
- D. Configuration management controls

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/wellarchitected/latest/security-pillar/shared-responsibility.html>

QUESTION 430

Which AWS services can be used to move data from on-premises data centers to AWS? (Choose two.)

- A. AWS Snowball
- B. AWS Lambda
- C. Amazon ElastiCache
- D. AWS Database Migration Service (AWS DMS)
- E. Amazon API Gateway

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/snowball/>

QUESTION 431

A company is moving its office and must establish an encrypted connection to AWS.

Which AWS service will help meet this requirement?

- A. AWS VPN
- B. Amazon Route 53
- C. Amazon API Gateway
- D. Amazon Connect

Correct Answer: A

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/vpn/>

QUESTION 432

A solution that is able to support growth in users, traffic, or data size with no drop in performance aligns with which cloud architecture principle?

- A. Think parallel
- B. Implement elasticity
- C. Decouple your components
- D. Design for failure

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf

QUESTION 433

A security officer wants a list of any potential vulnerabilities in Amazon EC2 security groups.

Which AWS service should the officer use?

- A. Amazon GuardDuty
- B. AWS Trusted Advisor
- C. AWS CloudTrail
- D. AWS Artifact

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>

QUESTION 434
A cloud practitioner wants information on the state of an existing AWS environment compared against established best practices.
Which AWS services or features should the cloud practitioner use to obtain this information? (Choose two.)

- A. AWS Artifact
- B. AWS Solutions Library
- C. AWS Trusted Advisor
- D. AWS Well-Architected Tool
- E. AWS Personal Health Dashboard

Correct Answer: BD
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://aws.amazon.com/solutions/>
<https://aws.amazon.com/well-architected-tool/?whats-new-cards.sort-by=item.additionalFields.postDateTime&whats-newcards.sort-order=desc>

QUESTION 435
Which of the following deployment models enables customers to fully trade their capital IT expenses for operational expenses?

- A. On-premises
- B. Hybrid
- C. Cloud
- D. Platform as a service

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
The cloud allows you to trade capital expenses (such as data centers and physical servers) for variable expenses, and only pay for IT as you consume it. Plus, the variable expenses are much lower than what you would pay to do it yourself because of the economies of scale.
Reference: <https://aws.amazon.com/what-is-cloud-computing/>

QUESTION 436
Which service enables risk auditing by continuously monitoring and logging account activity, including user actions in the AWS Management Console and AWS SDKs?

- A. Amazon CloudWatch
- B. AWS CloudTrail
- C. AWS Config
- D. AWS Health

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

Reference: <https://aws.amazon.com/cloudtrail/>

QUESTION 437

Which of the following AWS services can be used to serve large amounts of online video content with the lowest possible latency? (Choose two.)

- A. AWS Storage Gateway
- B. Amazon S3
- C. Amazon Elastic File System (EFS)
- D. Amazon Glacier
- E. Amazon CloudFront

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/getting-started/tutorials/deliver-content-faster/> <https://aws.amazon.com/cloudfront/>

QUESTION 438

Which AWS dashboard displays relevant and timely information to help users manage events in progress, and provides proactive notifications to help plan for scheduled activities?

- A. AWS Service Health Dashboard
- B. AWS Personal Health Dashboard
- C. AWS Trusted Advisor dashboard
- D. Amazon CloudWatch dashboard

Correct Answer: B

Section: (none)

Explanation



Explanation/Reference:

Explanation:

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

QUESTION 439

Which of the following are AWS compute services? (Choose two.)

- A. Amazon Lightsail
- B. AWS Systems Manager
- C. AWS CloudFormation
- D. AWS Batch
- E. Amazon Inspector

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/compute-services.html>

QUESTION 440

Which AWS service handles the deployment details of capacity provisioning, load balancing, Auto Scaling, and application health monitoring?

- A. AWS Config
- B. AWS Elastic Beanstalk
- C. Amazon Route 53
- D. Amazon CloudFront

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. At the same time, you retain full control over the AWS resources powering your application and can access the underlying resources at any time. Reference: <https://aws.amazon.com/elasticbeanstalk/>

QUESTION 441

A company wants to build an application for a new line of business.
According to the AWS Well-Architected Framework, what design principles should be implemented? (Choose two.)

- A. Consolidate multiple AWS accounts into a single account.
- B. Buy and host hardware in the AWS Cloud.
- C. Decouple the AWS Cloud architecture to break up monolithic deployments.
- D. Move on-premises network hardware to VPCs.
- E. Design elasticity into the AWS Cloud design.

Correct Answer: DE

Section: (none)
Explanation

Explanation/Reference:

QUESTION 442

How can consolidated billing within AWS Organizations help lower overall monthly expenses?

- A. By providing a consolidated view of monthly billing across multiple accounts
- B. By pooling usage across multiple accounts to achieve a pricing tier discount
- C. By automating the creation of new accounts through APIs
- D. By leveraging service control policies (SCPs) for centralized service management



Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/con-bill-blended-rates.html>

QUESTION 443

Which of the following is a software development framework that a company can use to define cloud resources as code and provision the resources through AWS CloudFormation?

- A. AWS CLI
- B. AWS Developer Center
- C. AWS Cloud Development Kit (AWS CDK)
- D. AWS CodeStar

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
The AWS Cloud Development Kit (AWS CDK) is an open source software development framework to define your cloud application resources using familiar programming languages. Provisioning cloud applications can be a challenging process that requires you to perform manual actions, write custom scripts, maintain templates, or learn domain-specific languages. AWS CDK uses the familiarity and expressive power of programming languages for modeling your applications. It provides you with high-level components called constructs that preconfigure cloud resources with proven defaults, so you can build cloud applications without needing to be an

expert. AWS CDK provisions your resources in a safe, repeatable manner through AWS CloudFormation. Reference:
<https://aws.amazon.com/cdk/>

QUESTION 444

What is an example of a decoupled, scalable, cloud-based application?

- A. A mail and log application that runs on a single Amazon EC2 instance
- B. A webpage that is hosted on Amazon S3 and uses AWS Lambda to update an Amazon DynamoDB database
- C. An Application Load Balancer, web server, and database server that support a monolithic application
- D. A legacy database server that is running on the maximum instance size supported by its license

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.ibm.com/cloud/blog/four-architecture-choices-for-application-development>

QUESTION 445

A developer has an AWS account and needs access to another account's test database.
Which AWS service or feature can the developer use to gain access to the test database?

- A. Amazon Macie
- B. Security groups
- C. IAM roles
- D. AWS Trusted Advisor

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/tutorial_cross-account-with-roles.html

QUESTION 446

Which AWS feature should a customer leverage to achieve high availability of an application?

- A. AWS Direct Connect
- B. Availability Zones
- C. Data centers
- D. Amazon Virtual Private Cloud (Amazon VPC)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

This is to achieve High Availability for any web application (in this case SwiftCode) deployed in AWS. The following features will be present:

High availability across multiple instances/multiple availability zones.

Auto Scaling of instances (scale up and scale down) based on number of requests coming in Additional Security to the instances/database that are in production No impact to end users during newer version of code deployment No Impact during patching the instances Reference: <https://betsol.com/2018/01/how-to-make-high-availability-web-applications-on-amazon-web-services/>

QUESTION 447

A company is launching an e-commerce site that will store and process credit card data. The company requires information about AWS compliance reports and AWS agreements.

Which AWS service provides on-demand access to these items?

- A. AWS Certificate Manager

- B. AWS Config
- C. AWS Artifact
- D. AWS CloudTrail

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 448

How do Amazon EC2 Auto Scaling groups help achieve high availability for a web application?

- A. They automatically add more instances across multiple AWS Regions based on global demand of the application.
- B. They automatically add or replace instances across multiple Availability Zones when the application needs it.
- C. They enable the application's static content to reside closer to end users.
- D. They are able to distribute incoming requests across a tier of web server instances.

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:

When the unhealthy Availability Zone returns to a healthy state, Auto Scaling automatically redistributes the application instances evenly across all of the designated Availability Zones.

Reference: <https://docs.aws.amazon.com/autoscaling/ec2/userguide/auto-scaling-benefits.html>



QUESTION 449

The user is fully responsible for which action when running workloads on AWS?

- A. Patching the infrastructure components
- B. Implementing controls to route application traffic
- C. Maintaining physical and environmental controls
- D. Maintaining the underlying infrastructure components

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 450

What is the MINIMUM AWS Support plan that provides designated Technical Account Managers?

- A. Enterprise
- B. Business
- C. Developer
- D. Basic

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 451

What are the immediate benefits of using the AWS Cloud? (Choose two.)

- A. Increased IT staff.
- B. Capital expenses are replaced with variable expenses.
- C. User control of infrastructure.
- D. Increased agility.
- E. AWS holds responsibility for security in the cloud.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 452

Which of the following services falls under the responsibility of the customer to maintain operating system configuration, security patching, and networking?

- A. Amazon RDS
- B. Amazon EC2
- C. Amazon ElastiCache
- D. AWS Fargate

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The customer is responsible for managing, support, patching and control of the guest operating system and AWS services provided like EC2. Reference: <https://www.whizlabs.com/blog/aws-security-shared-responsibility/>

QUESTION 453

How can a company separate costs for network traffic, Amazon EC2, Amazon S3, and other AWS services by department?

- A. Add department-specific tags to each resource
- B. Create a separate VPC for each department
- C. Create a separate AWS account for each department
- D. Use AWS Organizations

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 454

Which factors affect costs in the AWS Cloud? (Choose two.)

- A. The number of unused AWS Lambda functions
- B. The number of configured Amazon S3 buckets
- C. Inbound data transfers without acceleration
- D. Outbound data transfers without acceleration
- E. Compute resources that are currently in use

Correct Answer: CD

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/s3/pricing/>**QUESTION 455**

Which tool is used to forecast AWS spending?

- A. AWS Trusted Advisor
- B. AWS Organizations
- C. Cost Explorer
- D. Amazon Inspector

Correct Answer: C**Section: (none)****Explanation****Explanation/Reference:**

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ce-forecast.html>

You create a forecast by selecting a future time range for your report. For more information, see [Choosing time ranges for the data that you want to view](#). The following section discusses the accuracy of the forecasts created by Cost Explorer and how to read them.

A forecast is a prediction of how much you will use AWS services over the forecast time period that you selected. This forecast is based on your past usage. You can use a forecast to estimate your AWS bill and set alarms and budgets for based on predictions. Because forecasts are predictions, the forecasted billing amounts are estimated and might differ from your actual charges for each statement period.

QUESTION 456

What AWS benefit refers to a customer's ability to deploy applications that scale up and down to meet variable demand?

- A. Elasticity
- B. Agility
- C. Security
- D. Scalability

Correct Answer: D**Section: (none)****Explanation****Explanation/Reference:****QUESTION 457**

To avoid malicious compute activities, a user needs a quick way to determine if any Amazon EC2 instances have ports that allow unrestricted access. Which AWS service will support this requirement?

- A. VPC Flow Logs
- B. AWS WAF
- C. AWS CloudTrail
- D. AWS Trusted Advisor

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>

QUESTION 458

Under the AWS shared responsibility model, customers are responsible for which aspects of security in the cloud? (Choose two.)

- A. Virtualization Management
- B. Hardware management
- C. Encryption management
- D. Facilities management
- E. Firewall management

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

With the basic Cloud infrastructure secured and maintained by AWS, the responsibility for what goes into the cloud falls on you. This covers both client and server side encryption and network traffic protection, security of the operating system, network, and firewall configuration, followed by application security and identity and access management.

Firewall configuration remains the responsibility of the end user, which integrates at the platform and application management level. For example, RDS utilizes security groups, which you would be responsible for configuring and implementing.

Reference: <https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>

QUESTION 459

A company needs to perform a one-time migration of 40TB of data from its on-premises storage servers to Amazon S3. The transfer must happen as quickly as possible while keeping costs to a minimum. The company has 100 Mbps internet connectivity.

Which AWS service will meet these requirements?

- A. AWS Snowball
- B. AWS Direct Connect
- C. AWS Storage Gateway
- D. Amazon S3 Transfer Acceleration

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Snowball is better for 40TB transfer. It will make transfer while keeping the costs at minimum. With 100 mbps, it will be quick.

QUESTION 460

What will help a company perform a cost benefit analysis of migrating to the AWS Cloud?

- A. Cost Explorer
- B. AWS Total Cost of Ownership (TCO) Calculator
- C. AWS Simple Monthly Calculator
- D. AWS Trusted Advisor

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
AWS TCO calculators allow you to estimate the cost savings when using AWS and provide a detailed set of reports that can be used in executive presentations. The calculators also give you the option to modify assumptions that best meet your business needs.

Reference: <https://aws.amazon.com/tco-calculator/>

QUESTION 461

Which AWS service can be used to retrieve compliance reports on demand?

- A. AWS Secrets Manager
- B. AWS Artifact
- C. AWS Security Hub
- D. AWS Certificate Manager

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/artifact/>

QUESTION 462

A company has multiple data sources across the organization and wants to consolidate data into one data warehouse.
Which AWS service can be used to meet this requirement?

- A. Amazon DynamoDB
- B. Amazon Redshift
- C. Amazon Athena
- D. Amazon QuickSight

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/redshift/faqs/>

QUESTION 463

What is the lowest-cost, durable storage option for retaining database backups for immediate retrieval?

- A. Amazon S3
- B. Amazon Glacier
- C. Amazon EBS
- D. Amazon EC2 Instance Store

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 464

Which is a recommended pattern for designing a highly available architecture on AWS?

- A. Ensure that components have low-latency network connectivity.
- B. Run enough Amazon EC2 instances to operate at peak load.
- C. Ensure that the application is designed to accommodate failure of any single component.
- D. Use a monolithic application that handles all operations.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 465

What can assist in evaluating an application for migration to the cloud? (Choose two.)

- A. AWS Trusted Advisor
- B. AWS Professional Services
- C. AWS Systems Manager
- D. AWS Partner Network (APN)
- E. AWS Secrets Manager

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:



QUESTION 466

Which AWS service makes it easy to create and manage AWS users and groups, and provide them with secure access to AWS resources at no charge?

- A. AWS Direct Connect
- B. Amazon Connect
- C. AWS Identity and Access Management (IAM)
- D. AWS Firewall Manager

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/console_controlling-access.html
<https://aws.amazon.com/iam/>

QUESTION 467

Under the AWS shared responsibility model, which of the following activities are the customer's responsibility? (Choose two.)

- A. Patching operating system components for Amazon Relational Database Server (Amazon RDS)
- B. Encrypting data on the client-side
- C. Training the data center staff
- D. Configuring Network Access Control Lists (ACL)
- E. Maintaining environmental controls within a data center

Correct Answer: BD

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>**QUESTION 468**

Which AWS service is suitable for an event-driven workload?

- A. Amazon EC2
- B. AWS Elastic Beanstalk
- C. AWS Lambda
- D. Amazon Lumberyard

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

An easy-to-use service for deploying and scaling web applications and web services developed in a number of programming languages. You can configure event notifications for your Elastic Beanstalk environment so that notable events can be automatically published to an SNS topic, then pushed to topic subscribers. As an example, you may use this event-driven architecture to coordinate your continuous integration pipeline (such as Jenkins CI). That way, whenever an environment is created, Elastic Beanstalk publishes this event to an SNS topic, which triggers a subscribing Lambda function, which then kicks off a CI job against your newly created Elastic Beanstalk environment.

Reference: [https://aws.amazon.com/blogs/compute/event-driven-computing-with-amazon-sns-compute-storage-databaseand-networking-services/](https://aws.amazon.com/blogs/compute/event-driven-computing-with-amazon-sns-compute-storage-database-and-networking-services/)**QUESTION 469**

Which AWS service or feature can be used to prevent SQL injection attacks?

- A. Security groups
- B. Network ACLs
- C. AWS WAF
- D. IAM policy

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://docs.aws.amazon.com/waf/latest/developerguide/classic-web-acl-sql-conditions.html>**QUESTION 470**

Which AWS services provide a user with connectivity between the AWS Cloud and on-premises resources? (Choose two.)

- A. AWS VPN
- B. Amazon Connect
- C. Amazon Cognito
- D. AWS Direct Connect
- E. AWS Managed Services

Correct Answer: AD**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/directconnect/>
<https://aws.amazon.com/blogs/networking-and-content-delivery/introducing-aws-client-vpn-to-securely-access-aws-and-onpremises-resources/>**QUESTION 471**

Which AWS benefit is demonstrated by on-demand technology services that enable companies to replace upfront fixed expenses with variable expenses?

- A. High availability
- B. Economies of scale
- C. Pay-as-you-go pricing
- D. Global reach

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

Six Advantages of Cloud Computing

[PDF](#) | [RSS](#)

- **Trade capital expense for variable expense** – Instead of having to invest heavily in data centers and servers before you know how you're going to use them, you can pay only when you consume computing resources, and pay only for how much you consume.
- **Benefit from massive economies of scale** – By using cloud computing, you can achieve a lower variable cost than you can get on your own. Because usage from hundreds of thousands of customers is aggregated in the cloud, providers such as AWS can achieve higher economies of scale, which translates into lower pay-as-you-go prices.

QUESTION 472

A company has performance and regulatory requirements that call for it to run its workload only in its on-premises data center.
Which AWS services or resources should the company use? (Choose two.)

- A. Amazon Pinpoint
- B. Amazon WorkLink
- C. AWS Outposts
- D. AWS Snowball Edge
- E. AWS AppSync

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/worklink/> <https://aws.amazon.com/outposts/>

QUESTION 473

Which requirement must be met for a member account to be unlinked from an AWS Organizations account?

- A. The linked account must be actively compliant with AWS System and Organization Controls (SOC).
- B. The payer and the linked account must both create AWS Support cases to request that the member account be unlinked from the organization.
- C. The member account must meet the requirements of a standalone account.
- D. The payer account must be used to remove the linked account from the organization.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 474

Which of the following describes the relationships among AWS Regions, Availability Zones, and edge locations? (Choose two.)

- A. There are more AWS Regions than Availability Zones.
- B. There are more edge locations than AWS Regions.
- C. An edge location is an Availability Zone.
- D. There are more AWS Regions than edge locations.
- E. There are more Availability Zones than AWS Regions.

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 475

Which AWS service allows users to download security and compliance reports about the AWS infrastructure on demand?

- A. Amazon GuardDuty
- B. AWS Security Hub
- C. AWS Artifact
- D. AWS Shield

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 476**

The continual reduction of AWS Cloud pricing is due to:

- A. pay-as-you go pricing
- B. the AWS global infrastructure
- C. economies of scale
- D. reserved storage pricing

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 477

Which AWS service can be used in the application deployment process?

- A. AWS AppSync
- B. AWS Batch
- C. AWS CodePipeline
- D. AWS DataSync

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 478**

What AWS team assists customers with accelerating cloud adoption through paid engagements in any of several specialty practice areas?

- A. AWS Enterprise Support
- B. AWS Solutions Architects
- C. AWS Professional Services
- D. AWS Account Managers

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/professional-services/>

QUESTION 479

A company plans to store sensitive data in an Amazon S3 bucket.

Which task is the responsibility of AWS?

- A. Activate encryption at rest for the data.
- B. Provide security for the physical infrastructure.
- C. Train the company's employees about cloud security.
- D. Remove personally identifiable information (PII) from the data.

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Amazon S3 can often house sensitive and confidential information. To help secure your data within Amazon S3, you should be using AWS Key Management Service (AWS KMS) with server-side encryption at rest for Amazon S3. It is also important that you secure the S3 buckets so that you only allow access to the developers and users who require that access.

Reference: <https://aws.amazon.com/blogs/security/strengthen-the-security-of-sensitive-data-stored-in-amazon-s3-by-usingadditional-aws-services/>

QUESTION 480

Under the AWS shared responsibility model, which of the following is the customer's responsibility?

- A. Patching guest OS and applications
- B. Patching and fixing flaws in the infrastructure
- C. Physical and environmental controls
- D. Configuration of AWS infrastructure devices

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 481**

A solutions architect needs to create a cost estimate for running workloads on AWS. The cost estimate must then be exported for management review.

Which AWS service or feature should be used to accomplish these task?

- A. Cost Explorer

- B. Amazon QuickSight
- C. AWS Pricing Calculator
- D. AWS Budgets

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/pricing-calculator/latest/userguide/aws-pc.pdf>

QUESTION 482

Which AWS service needs to be enabled to track all user account changes within the AWS Management Console?

- A. AWS CloudTrail
- B. Amazon Simple Notification Service (Amazon SNS)
- C. VPC Flow Logs
- D. AWS CloudHSM

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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. 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. Reference: <https://aws.amazon.com/cloudtrail/>

QUESTION 483

A system in the AWS Cloud is designed to withstand the failure of one or more components.

What is this an example of?

- A. Elasticity
- B. High Availability
- C. Scalability
- D. Agility

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://wa.aws.amazon.com/wat.question.REL_7.en.html

QUESTION 484

Which Amazon S3 storage class allows users to store data backups for long periods of time at the LOWEST cost?

- A. S3 Standard-Infrequent Access (S3 Standard-IA)
- B. S3 Standard
- C. S3 Glacier
- D. S3 One Zone-Infrequent Access (S3 One Zone-IA)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/s3/storageclasses/#:~:text=S3%20Glacier%20Deep%20Archive%20is,or%20twice%20in%20a%20year>

QUESTION 485

Which AWS service or feature allows a user to easily scale connectivity among thousands of VPCs?

- A. VPC peering
- B. AWS Transit Gateway
- C. AWS Direct Connect
- D. AWS Global Accelerator

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/training-and-certification/explore-the-aws-transit-gateway-networking-and-scalingdigital-course/>

QUESTION 486

Which of the following is a fast and reliable NoSQL database service?

- A. Amazon Redshift
- B. Amazon RDS
- C. Amazon DynamoDB
- D. Amazon S3

Correct Answer: C

Section: (none)

Explanation

**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/dynamodb/>

QUESTION 487

An application is receiving SQL injection attacks from multiple external resources.
Which AWS service or feature can help automate mitigation against these attacks?

- A. AWS WAF
- B. Security groups
- C. Elastic Load Balancer
- D. Network ACL

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/waf/latest/developerguide/waf-rule-statement-type-sqli-match.html>

QUESTION 488

A web application is hosted on AWS using an Elastic Load Balancer, multiple Amazon EC2 instances, and Amazon RDS.
Which security measures fall under the responsibility of AWS? (Choose two.)

- A. Running a virus scan on EC2 instances

- B. Protecting against IP spoofing and packet sniffing
- C. Installing the latest security patches on the RDS instance
- D. Encrypting communication between the EC2 instances and the Elastic Load Balancer
- E. Configuring a security group and a network access control list (NACL) for EC2 instances

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 489

What feature of Amazon RDS helps to create globally redundant databases?

- A. Snapshots
- B. Automatic patching and updating
- C. Cross-Region read replicas
- D. Provisioned IOPS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/aws/cross-region-read-replicas-for-amazon-rds-for-mysql/>

This feature builds upon our existing support for read replicas that reside within the same region as the source database instance. You can now create up to five in-region and cross-region replicas per source with a single API call or a couple of clicks in the AWS Management Console. We are launching with support for version 5.6 of MySQL.



QUESTION 490

A user is able to set up a master payer account to view consolidated billing reports through:

- A. AWS Budgets.
- B. Amazon Macie.
- C. Amazon QuickSight.
- D. AWS Organizations.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>

QUESTION 491

A company uses Amazon EC2 infrastructure to host steady-state workloads and needs to achieve significant cost savings. Which EC2 instance pricing model should the company select?

- A. Reserved Instances
- B. On-Demand Instances
- C. Spot Instances

D. Dedicated Hosts

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/>

QUESTION 492

A company that does business online needs to quickly deliver new functionality in an iterative manner, minimizing the time to market. Which AWS Cloud feature can provide this?

- A. Elasticity
- B. High availability
- C. Agility
- D. Reliability

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/devops/partner-solutions/>

QUESTION 493

How can an AWS user with an AWS Basic Support plan obtain technical assistance from AWS?

- A. AWS Senior Support Engineers
- B. AWS Technical Account Managers
- C. AWS Trusted Advisor
- D. AWS Discussion Forums

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/faqs/>

QUESTION 494

What is the MOST effective resource for staying up to date on AWS security announcements?

- A. AWS Personal Health Dashboard
- B. AWS Secrets Manager
- C. AWS Security Bulletins
- D. Amazon Inspector

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 495

When architecting cloud applications, which of the following are a key design principle?

- A. Use the largest instance possible
- B. Provision capacity for peak load
- C. Use the Scrum development process
- D. Implement elasticity

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Cloud services main proposition is to provide elasticity through horizontal scaling. It's already there. As for using largest instance possible, it is not a design principle that helps cloud applications in anyway. Scrum development process is not related to architecting. Therefore, a key principle is to provision your application for on-demand capacity. Peak loads is something that cloud applications experience everyday. Peak load management should be a necessary part of cloud application design principle.

Reference: https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf

QUESTION 496

What function do security groups serve related to Amazon Elastic Compute Cloud (Amazon EC2) instance security?

- A. Act as a virtual firewall for the Amazon EC2 instance.
- B. Secure AWS user accounts with AWS Identity and Access Management (IAM) policies.
- C. Provide DDoS protection with AWS Shield.
- D. Use Amazon CloudFront to protect the Amazon EC2 instance.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Security Groups act like a firewall for your Amazon EC2 instances controlling both inbound and outbound traffic. When you launch an instance on Amazon EC2, you need to assign it to a particular security group.

After that, you can set up ports and protocols, which remain open for users and computers over the internet.

AWS Security Groups are very flexible. You can use the default security group and still customize it according to your liking (although we don't recommend this practice because groups should be named according to their purpose.) Or you can create a security group that you want for your specific applications. To do this, you can write the corresponding code or use the Amazon EC2 console to make the process easier.

Reference: <https://www.threatstack.com/blog/aws-security-groups-what-they-are-and-how-to-get-the-most-out-of-them>



QUESTION 497

The AWS Trusted Advisor checks include recommendations regarding which of the following? (Choose two.)

- A. Information on Amazon S3 bucket permissions
- B. AWS service outages
- C. Multi-factor authentication enabled on the AWS account root user
- D. Available software patches
- E. Number of users in the account

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>

QUESTION 498

According to the AWS shared responsibility model, which task is the customer's responsibility?

- A. Maintaining the infrastructure needed to run AWS Lambda

- B. Updating the operating system of Amazon DynamoDB instances
- C. Maintaining Amazon S3 infrastructure
- D. Updating the guest operating system on Amazon EC2 instances

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibilitymodel/#:~:text=Customers%20are%20responsible%20for%20managing,also%20extends%20to%20IT%20controls>

QUESTION 499

Which AWS service enables users to monitor for specific phrases, values, or patterns and set up alarms based on metrics?

- A. AWS IQ
- B. Amazon Comprehend
- C. AWS CloudTrail
- D. Amazon CloudWatch Logs

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/cloudwatch/features/>

QUESTION 500

A user is planning to migrate an application workload to the AWS Cloud.
Which control becomes the responsibility of AWS once the migration is complete?

- A. Patching the guest operating system
- B. Maintaining physical and environmental controls
- C. Protecting communications and maintaining zone security
- D. Patching specific applications

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 501

Which AWS Cloud service provides performance recommendations for an AWS account?

- A. Amazon Inspector
- B. AWS Trusted Advisor
- C. Amazon CloudWatch
- D. AWS CloudTrail

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-instance-recommendations.html>

QUESTION 502

A user has a stateful workload that will run on Amazon EC2 for the next 3 years.
What is the MOST cost-effective pricing model for this workload?

- A. On-Demand Instances
- B. Reserved Instances
- C. Dedicated Instances
- D. Spot Instances

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:
On-demand instances are useful for running stateful workloads without making a long-term commitment, but if your workloads are stateless or can tolerate shorter run cycles, there's a more cost-effective instance type called a Spot Instance.

Reference: <https://www.gremlin.com/blog/implementing-cost-saving-strategies-on-amazon-ec-2-with-chaos-engineering/>

QUESTION 503

Which of the following are features of Amazon CloudWatch Logs? (Choose two.)

- A. Summaries by Amazon Simple Notification Service (Amazon SNS)
- B. Free Amazon Elasticsearch Service analytics
- C. Provided at no charge
- D. Real-time monitoring
- E. Adjustable retention

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 504

A company hosts an application on multiple Amazon EC2 instances. The application uses Amazon Simple Notification Service (Amazon SNS) to send messages.
Which AWS service or feature will give the application permission to access required AWS services?

- A. AWS Certificate Manager (ACM)
- B. IAM roles
- C. AWS Security Hub
- D. Amazon GuardDuty

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:
An IAM role is an IAM entity that defines a set of permissions for making AWS service requests. IAM roles are not associated with a specific user or group. Instead, trusted entities assume roles, such as IAM users, applications, or AWS services such as EC2.

Reference: <https://aws.amazon.com/iam/faqs/>

QUESTION 505

Which AWS service offers persistent storage for a file system?

- A. Amazon S3

- B. Amazon EC2 instance store
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon ElastiCache

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 506

Access keys in AWS Identity and Access Management (IAM) are used to:

- A. log in to the AWS Management Console.
- B. make programmatic calls to AWS from AWS APIs.
- C. log in to Amazon EC2 instances.
- D. authenticate to AWS CodeCommit repositories.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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



QUESTION 507

Which feature adds elasticity to Amazon EC2 instances to handle the changing demand for workloads?

- A. Resource groups
- B. Lifecycle policies
- C. Application Load Balancer
- D. Amazon EC2 Auto Scaling

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Support for monitoring the health of each service independently, as health checks are defined at the target group level and many CloudWatch metrics are reported at the target group level. Attaching a target group to an Auto Scaling group enables you to scale each service dynamically based on demand.

Reference: <https://docs.aws.amazon.com/elasticloadbalancing/latest/application/introduction.html>

QUESTION 508

What is an Availability Zone?

- A. A location where users can deploy compute, storage, database, and other select AWS services where no AWS Region currently exists.
- B. One or more discrete data centers with redundant power, networking, and connectivity
- C. One or more clusters of servers where new workloads can be deployed
- D. A fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to users globally

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Availability Zones consist of one or more discrete data centers, each with redundant power, networking, and connectivity, housed in separate facilities.
Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/global-infrastructure.html>

QUESTION 509

The pay-as-you-go pricing model for AWS services:

- A. reduces capital expenditures.
- B. requires payment up front for AWS services.
- C. is relevant only for Amazon EC2, Amazon S3, and Amazon RDS.
- D. reduces operational expenditures.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.10thmagnitude.com/opex-vs-capex-the-real-cloud-computing-cost-advantage/>

QUESTION 510

A customer is deploying a new application and needs to choose an AWS Region.
Which of the following factors could influence the customer's decision? (Choose two.)

- A. Reduced latency to users
- B. The application's presentation in the local language
- C. Data sovereignty compliance
- D. Cooling costs in hotter climates
- E. Proximity to the customer's office for on-site visits

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 511

What should a user do to deploy an application in geographically separate locations?

- A. Deploy the application in different placement groups.
- B. Deploy the application to a VPC.
- C. Deploy the application to multiple AWS Regions.
- D. Deploy the application by using Amazon CloudFront.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://aws.amazon.com/about-aws/global-infrastructure/regions_az/



Regions

AWS has the concept of a Region, which is a physical location around the world where we cluster data centers. We call each group of logical data centers an Availability Zone. Each AWS Region consists of multiple, isolated, and physically separate AZs within a geographic area. Unlike other cloud providers, who often define a region as a single data center, the multiple AZ design of every AWS Region offers advantages for customers. Each AZ has independent power, cooling, and physical security and is connected via redundant, ultra-low-latency networks. AWS customers focused on high availability can design their applications to run in multiple AZs to achieve even greater fault-tolerance. AWS infrastructure Regions meet the highest levels of security, compliance, and data protection.

AWS provides a more extensive global footprint than any other cloud provider, and to support its global footprint and ensure customers are served across the world, AWS opens new Regions rapidly. AWS maintains multiple geographic Regions, including Regions in North America, South America, Europe, China, Asia Pacific, South Africa, and the Middle East.

QUESTION 512

Which AWS service should a company use to decouple large monolithic applications into smaller microservices components?

- A. AWS Direct Connect
- B. Amazon Lightsail
- C. Amazon Simple Queue Service (Amazon SQS)
- D. Amazon CloudWatch

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 513

Which AWS tools assist with estimating costs? (Choose three.)

- A. Detailed billing report
- B. Cost allocation tags
- C. AWS Simple Monthly Calculator
- D. AWS Total Cost of Ownership (TCO) Calculator
- E. Cost Estimator

Correct Answer: BCD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 514

What are the market advantages of running workloads in the AWS Cloud? (Choose two.)

- A. Less staff time is required to deploy new workloads.
- B. Increased time to market for new application features.
- C. Higher acquisition costs to support peak workloads.
- D. Increased productivity for application development teams.
- E. A decrease in the average server CPU utilization.

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://pages.awscloud.com/rs/112-TZM-766/images/GEN_windows-on-aws-it-staff-productivity-idc-minireport_Sep-2019.pdf

QUESTION 515

A company will be moving from an on-premises data center to the AWS Cloud.
What would be one financial difference after the move?

- A. Moving from variable operational expense (opex) to upfront capital expense (capex).
- B. Moving from upfront capital expense (capex) to variable capital expense (capex).
- C. Moving from upfront capital expense (capex) to variable operational expense (opex).
- D. Elimination of upfront capital expense (capex) and elimination of variable operational expense (opex).

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 516

Which service provides a hybrid storage service that enables on-premises applications to seamlessly use cloud storage?

- A. Amazon Glacier
- B. AWS Snowball
- C. AWS Storage Gateway
- D. Amazon Elastic Block Storage (Amazon EBS)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Storage Gateway is a hybrid cloud storage service that gives you on-premises access to virtually unlimited cloud storage. Customers use Storage Gateway to simplify storage management and reduce costs for key hybrid cloud storage use cases. These include moving tape backups to the cloud, reducing on-premises storage with cloud-backed file shares, providing low latency access to data in AWS for on-premises applications, as well as various migration, archiving, processing, and disaster recovery use cases.

Reference: <https://aws.amazon.com/storagegateway/?whats-new-cards.sort-by=item.additionalFields.postDateTime&whatsnew-cards.sort-order=desc>

QUESTION 517

Which AWS service or feature allows a user to set up consolidated billing?

- A. AWS Billing Management Console
- B. AWS Organizations
- C. AWS Cost and Usage Report
- D. WAS Systems Manager

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>

QUESTION 518

A company needs an Amazon S3 bucket that cannot have any public objects due to compliance requirements.
How can this be accomplished?

- A. Enable S3 Block Public Access from the AWS Management Console.
- B. Hold a team meeting to discuss the importance if only uploading private S3 objects.
- C. Require all S3 objects to be manually approved before uploading.
- D. Create a service to monitor all S3 uploads and remove any public uploads.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/AmazonS3/latest/dev/access-control-block-public-access.html>

QUESTION 519

Fault tolerance refers to:

- A. the ability of an application to accommodate growth without changing design
- B. how well and how quickly an application's environment can have lost data restored
- C. how secure your application is
- D. the built-in redundancy of an application's components

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 520

Which of the following AWS services provide compute resources? (Choose two.)

- A. AWS Lambda
- B. Amazon Elastic Container Service (Amazon ECS)
- C. AWS CodeDeploy
- D. Amazon Glacier
- E. AWS Organizations

Correct Answer: AB
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/compute-services.html>

QUESTION 521

Which AWS Cloud benefit eliminates the need for users to try estimating future infrastructure usage?

- A. Easy and fast deployment of applications in multiple Regions around the world
- B. Security of the AWS Cloud
- C. Elasticity of the AWS Cloud
- D. Lower variable costs due to massive economies of scale

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 522

A workload on AWS will run for the foreseeable future by using a consistent number of Amazon EC2 instances.
What pricing model will minimize cost while ensuring that compute resources remain available?

- A. Dedicated Hosts
- B. On-Demand Instances
- C. Spot Instances
- D. Reserved Instances

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-reserved-instances.html>

QUESTION 523

According to the AWS shared responsibility model, which of the following is the responsibility of AWS?

- A. Data encryption in transit
- B. Firmware updates on hardware
- C. Operating system patching on Amazon EC2 instances
- D. Data encryption at rest

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 524

A company hosts its website on Amazon EC2 instances. The company needs to ensure that the website reaches a global audience and provides minimum latency to users. Which AWS service should the company use to meet these requirements?

- A. Amazon Route 53
- B. Amazon CloudFront
- C. Elastic Load Balancing
- D. AWS Lambda

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/route53/faqs/>

QUESTION 525

According to best practices, how should an application be designed to run in the AWS Cloud?

- A. Use tightly coupled components.
- B. Use loosely coupled components.
- C. Use infrequently coupled components.
- D. Use frequently coupled components.

Correct Answer: B

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf

QUESTION 526

Which AWS service is a content delivery network that securely delivers data, video, and applications to users globally with low latency and high speeds?

- A. AWS CloudFormation
- B. AWS Direct Connect
- C. Amazon CloudFront
- D. Amazon Pinpoint

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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. CloudFront is integrated with AWS – both physical locations that are directly connected to the AWS global infrastructure, as well as other AWS services. Reference: <https://aws.amazon.com/cloudfront/>

QUESTION 527

Which AWS services should be used for read/write of constantly changing data? (Choose two.)

- A. Amazon Glacier
- B. Amazon RDS
- C. AWS Snowball
- D. Amazon Redshift
- E. Amazon EFS

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:**QUESTION 528**

A company is designing an application hosted in a single AWS Region serving end-users spread across the world. The company wants to provide the end-users low latency access to the application data. Which of the following services will help fulfill this requirement?

- A. Amazon CloudFront
- B. AWS Direct Connect
- C. Amazon Route 53 global DNS
- D. Amazon Simple Storage Service (Amazon S3) transfer acceleration

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Use AWS Local Zones to deploy workloads closer to your end-users for low-latency requirements. AWS Local Zones have their own connection to the internet and support AWS Direct Connect, so resources created in the Local Zone can serve local end-users with very low-latency communications. Reference: <https://aws.amazon.com/about-aws/global-infrastructure/localzones/faqs/>

QUESTION 529

Which AWS service can be used to automatically scale an application up and down without making capacity planning decisions?

- A. Amazon AutoScaling

- B. Amazon Redshift
- C. AWS CloudTrail
- D. AWS Lambda

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/blogs/aws/category/auto-scaling/>

QUESTION 530

A company needs to plan, schedule, and run hundreds of thousands of computing jobs on AWS.
Which AWS service can the company use to meet this requirement?

- A. AWS Step Functions
- B. AWS Service Catalog
- C. Amazon Simple Queue Service (Amazon SQS)
- D. AWS Batch

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/batch/>

QUESTION 531

During a compliance review, one of the auditors requires a copy of the AWS SOC 2 report.
Which service should be used to submit this request?

- A. AWS Personal Health Dashboard
- B. AWS Trusted Advisor
- C. AWS Artifact
- D. Amazon S3

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 532

A company wants to provide one of its employees with access to Amazon RDS. The company also wants to limit the interaction to only the AWS CLI and AWS software development kits (SDKs). Which combination of actions should the company take to meet these requirements while following the principles of least privilege? (Choose two.)

- A. Create an IAM user and provide AWS Management Console access only.
- B. Create an IAM user and provide programmatic access only.
- C. Create an IAM role and provide AWS Management Console access only.
- D. Create an IAM policy with administrator access and attach it to the IAM user.
- E. Create an IAM policy with Amazon RDS access and attach it to the IAM user.

Correct Answer: BE
Section: (none)
Explanation



Explanation/Reference:**QUESTION 533**

A user needs to automatically discover, classify, and protect sensitive data stored in Amazon S3. Which AWS service can meet these requirements?

- A. Amazon Inspector
- B. Amazon Macie
- C. Amazon GuardDuty
- D. AWS Secrets Manager

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 534**

Which of the following describes a security best practice that can be implemented using AWS IAM?

- A. Disable AWS Management Console access for all users
- B. Generate secret keys for every IAM user
- C. Grant permissions to users who are required to perform a given task only
- D. Store AWS credentials within Amazon EC2 instances

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: <https://cloudcheckr.com/cloud-security/top-5-iam-best-practices/>

QUESTION 535

When a company provisions web servers in multiple AWS Regions, what is being increased?

- A. Coupling
- B. Availability
- C. Security
- D. Durability

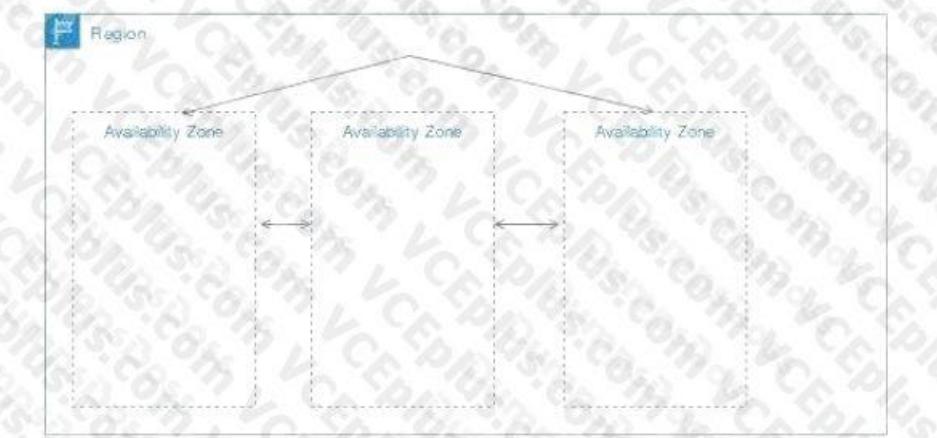
Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>

Availability Zones

Each Region has multiple, isolated locations known as *Availability Zones*. When you launch an instance, you can select an Availability Zone or let us choose one for you. If you distribute your instances across multiple Availability Zones and one instance fails, you can design your application so that an instance in another Availability Zone can handle requests.

The following diagram illustrates multiple Availability Zones in an AWS Region.



VCEup

QUESTION 536

Which AWS services can be used to gather information about AWS account activity? (Choose two.)

- A. Amazon CloudFront
- B. AWS Cloud9
- C. AWS CloudTrail
- D. AWS CloudHSM
- E. Amazon CloudWatch

Correct Answer: CE**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

AWS offers a solution that uses AWS CloudTrail to log account activity, Amazon Kinesis to compute and stream metrics in real-time, and Amazon DynamoDB to durably store the computed data. Metrics are calculated for create, modify, and delete API calls for more than 60 supported AWS services. The solution also features a dashboard that visualizes your account activity in real-time.

Reference: <https://aws.amazon.com/solutions/real-time-insights-account-activity/>

QUESTION 537

Which pricing model will interrupt a running Amazon EC2 instance if capacity becomes temporarily unavailable?

- A. On-Demand Instances
- B. Standard Reserved Instances
- C. Spot Instances
- D. Convertible Reserved Instances

Correct Answer: C

Section: (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/spot-fleet.html>

Spot Fleet

[PDF](#) | [Kindle](#) | [RSS](#)

A Spot Fleet is set of Spot Instances and optionally On-Demand Instances that is launched based on criteria that you specify. The Spot Fleet selects the Spot capacity pools that meet your needs and launches Spot Instances to meet the target capacity for the fleet. By default, Spot Fleets are set to *maintain* target capacity by launching replacement instances after Spot Instances in the fleet are terminated. You can submit a Spot Fleet as a one-time *request*, which does not persist after the instances have been terminated. You can include On-Demand Instance requests in a Spot Fleet request.

QUESTION 538

When comparing the total cost of ownership (TCO) of an on-premises infrastructure to a cloud architecture, what costs should be considered? (Choose two.)

- A. The credit card processing fees for application transactions in the cloud.
- B. The cost of purchasing and installing server hardware in the on-premises data.
- C. The cost of administering the infrastructure, including operating system and software installations, patches, backups, and recovering from failures.
- D. The costs of third-party penetration testing.
- E. The advertising costs associated with an ongoing enterprise-wide campaign.

Correct Answer: BC**Section: (none)****Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/tco-calculator/>**QUESTION 539**

When using Amazon RDS, what is the customer responsible for?

- A. Patching and maintenance of the underlying operating system.
- B. Managing automatic backups of the database.
- C. Controlling network access through security groups.
- D. Replacing failed instances in the event of a hardware failure.

Correct Answer: C**Section: (none)****Explanation****Explanation/Reference:****QUESTION 540**

A user needs to quickly deploy a non-relational database on AWS. The user does not want to manage the underlying hardware or the database software. Which AWS service can be used to accomplish this?

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon Aurora
- D. Amazon Redshift

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/SQLtoNoSQL.html>

QUESTION 541

A company wants to securely access an Amazon S3 bucket from an Amazon EC2 instance without accessing the internet.

What should the company use to accomplish this goal?

- A. VPN connection
- B. Internet gateway

- C. VPC endpoint

- D. NAT gateway

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/ec2-instance-access-s3-bucket/>

QUESTION 542

A developer has been hired by a large company and needs AWS credentials.

Which are security best practices that should be followed? (Choose two.)

- A. Grant the developer access to only the AWS resources needed to perform the job.
- B. Share the AWS account root user credentials with the developer.
- C. Add the developer to the administrator's group in AWS IAM.
- D. Configure a password policy that ensures the developer's password cannot be changed.
- E. Ensure the account password policy requires a minimum length.

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 543

Which AWS service or feature enables users to encrypt data at rest in Amazon S3?

- A. IAM policies
- B. Server-side encryption
- C. Amazon GuardDuty
- D. Client-side encryption

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/wellarchitected/latest/security-pillar/protecting-data-at-rest.html>

QUESTION 544

A pharmaceutical company operates its infrastructure in a single AWS Region. The company has thousands of VPCs in various AWS accounts that it wants to interconnect.

Which AWS service or feature should the company use to help simplify management and reduce operational costs?

- A. VPC endpoint
- B. AWS Direct Connect
- C. AWS Transit Gateway
- D. VPC peering

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://d1.awsstatic.com/whitepapers/building-a-scalable-and-secure-multi-vpc-aws-network-infrastructure.pdf> (9)

QUESTION 545

A user has a stateless and restartable application that will run on an Amazon EC2 instance for 2 hours at a time.

Which purchase option is the MOST cost-effective?

- A. On-Demand Instances
- B. Reserved Instances
- C. Dedicated Instances
- D. Spot Instances

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Moreover, you can easily combine Spot Instances with On-Demand, RIs and Savings Plans Instances to further optimize workload cost with performance. Due to the operating scale of AWS, Spot Instances can offer the scale and cost savings to run hyper-scale workloads. You also have the option to hibernate, stop or terminate your Spot Instances when EC2 reclaims the capacity back with two minutes of notice.

Reference: https://aws.amazon.com/ec2/spot/?cards.sort-by=item.additionalFields.startDate&cards.sortorder=asc&trk=ps_a134p000006vwFPAY&trkCampaign=acq_paid_search_brand&sc_channel=PS&sc_campaign=acquisition_ASEAN&sc_publisher=Google&sc_category=Cloud%20Computing&sc_country=ASEAN&sc_geo=APAC&sc_outcome=acq&sc_detail=ec2%20spot%20instances&sc_content=EC2%20Spot_e&sc_matchtype=e&sc_segment=517700822327&sc_medium=ACQ-P|PSGO|Brand|Desktop|SU|Cloud%20Computing|EC2%20Spot|ASEAN|EN|Text&s_kwcid=AL!4422!3!517700822327!e!!g!!ec2%20spot%20instances&ef_id=Cj0KCQiAzfuNBhCGARlsAD1nu--rrLgulJXXtzDDkBfM-13G2AYRb_2iA6srPG19NVPc3eRAuPGcaAipgEALw_wcB:G:s&s_kwcid=AL!4422!3!517700822327!e!!g!!ec2%20spot%20instances

QUESTION 546

A user would like to encrypt data that is received, stored, and managed by AWS CloudTrail.

Which AWS service will provide this capability?

- A. AWS Secrets Manager
- B. AWS Systems Manager
- C. AWS Key Management Service (AWS KMS)
- D. AWS Certificate Manager

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awscloudtrail/latest/userguide/data-protection.html>

QUESTION 547

Which AWS service should be used for long-term, low-cost storage of data backups?

- A. Amazon RDS

- B. Amazon Glacier
- C. AWS Snowball
- D. AWS EBS

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon S3 Glacier is a secure, durable, and low-cost storage class of S3 for data archiving and long-term backup.

Customers can store large or small amounts of data for as little as \$0.004 per gigabyte per month. The S3 Glacier storage class is ideal for archives where data is regularly retrieved and some of the data may be needed in minutes.

Amazon RDS is a relational database service that hosts databases. It helps you create and manage databases. Amazon Snowball is a petabyte-scale data transfer service that provides cost efficient data transfer to AWS from tamper proof physical devices. Similarly, Elastic block storage offers persistent block storage volumes for EC2 instances. Reference:

<https://aws.amazon.com/backup-restore/services/>

QUESTION 548

AWS Budgets can be used to:

- A. prevent a given user from creating a resource
- B. send an alert when the utilization of Reserved Instances drops below a certain percentage
- C. set resource limits in AWS accounts to prevent overspending
- D. split an AWS bill across multiple forms of payment

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 549

A retail company wants to provision only the necessary amount of resources to handle the current demand.

Which cloud benefit is the company trying to achieve with this goal?

- A. Reliability
- B. Global reach
- C. Scalability
- D. High availability

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 550

A company wants to move its data center to the AWS Cloud. Technology leadership needs to develop a business case that includes the most cost-effective deployment and purchasing options.

Which AWS service or features supports this task with the LEAST amount of operational overhead?

- A. AWS Migration Evaluator
- B. AWS Application Discovery Service
- C. AWS Migration Hub
- D. AWS Server Migration Service (AWS SMS)

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/migration-evaluator/>**Benefits**

Simplifies discovery	Optimizes cloud planning	Fast Tracks Migration
Migration Evaluator discovers on-premises instances that are overprovisioned, and suggests alternate AWS instances that meet or exceed those requirements at a lower cost.	Easily identify which current Microsoft licenses can move to cloud and the cost comparison of Bring Your Own License (BYOL) vs License Included (LI) options.	Migration Evaluator delivers assessments that have been proven to reduce costs by up to 50%.

How it works

Beginning with on-premises inventory discovery, you can choose to upload exports from AWS Application Discovery Service, 3rd party tools or install a complimentary agentless collector to monitor Windows, Linux and SQL Server footprints. Our service analyzes your organization's compute footprint, including server configuration, utilization, annual costs to operate, eligibility for bring-your-own-license, and hundreds of other parameters. It then statistically models utilization patterns, matching each workload with optimized placements in the Amazon Elastic Compute Cloud and Amazon Elastic Block Store. Initially, it outputs a summary of the projected costs to re-host at AWS based on usage patterns, and the breakdown of costs by infrastructure and software licenses. If additional insights are requested, a business case is developed with a comparison of the current-state against multiple future-state configurations showing the flexibility of AWS.

VCEup

QUESTION 551

What is the best resource for a user to find compliance-related information and reports about AWS?

- A. AWS Artifact
- B. AWS Marketplace
- C. Amazon Inspector
- D. AWS Support

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference:

https://aws.amazon.com/compliance/faq/#:~:text=AWS%20Artifact%20%E2%80%93%20AWS%20Artifact%20is,reports%20and%20select%20online%20agreements

1. WHAT IS THE BEST WAY TO COMPLETE MY ANNUAL VENDOR/SUPPLIER/DUE-DILIGENCE QUESTIONNAIRE OF AWS?

In the event that you need assistance to complete a questionnaire to document AWS security and compliance positions, AWS has a recommended approach designed to provide you with the resources you need to answer your security and compliance questions in the context of the cloud and AWS's business model. The most frequently used resources to complete security and compliance questionnaires are:

- **AWS Artifact** – AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS's security and compliance reports and select online agreements. Reports available in AWS Artifact include our Service Organization Control (SOC) reports, Payment Card Industry (PCI) attestation of compliance, and certifications from accreditation bodies across geographies and compliance verticals that validate the implementation and operating effectiveness of AWS security controls. Agreements available in AWS Artifact include the Business Associate Addendum (BAA) and the Nondisclosure Agreement (NDA).

QUESTION 552

How can moving to the AWS Cloud help users reduce the time dedicated to operating system patching? (Choose two.)

- A. Users can take advantage of managed services on AWS.
- B. Users can outsource operating system patching to the AWS Support team.
- C. AWS Professional Services will upgrade instances to the latest operating system versions.
- D. Users have the ability to use license-included Amazon EC2 instances.
- E. Users can take advantage of AWS Systems Manager features.

Correct Answer: AE**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 553**

What is the most efficient way to establish network connectivity from on-premises to multiple VPCs in different AWS Regions?

- A. Use AWS Direct Connect
- B. Use AWS VPN
- C. Use AWS Client VPN
- D. Use an AWS Transit Gateway

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: [https://d1.awsstatic.com/whitepapers/building-a-scalable-and-secure-multi-vpc-aws-network-infrastructure.pdf\(11\)](https://d1.awsstatic.com/whitepapers/building-a-scalable-and-secure-multi-vpc-aws-network-infrastructure.pdf(11))**QUESTION 554**

Which of the following will enhance the security of access to the AWS Management Console? (Choose two.)

- A. AWS Secrets Manager
- B. AWS Certificate Manager
- C. AWS Multi-Factor Authentication (AWS MFA)
- D. Security groups
- E. Password policies

Correct Answer: CE
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/security/guidelines-for-protecting-your-aws-account-while-using-programmaticaccess/>

QUESTION 555

An online retail company recently deployed a production web application. The system administrator needs to block common attack patterns such as SQL injection and cross-site scripting. Which AWS service should the administrator use to address these concerns?

- A. AWS WAF
- B. Amazon VPC
- C. Amazon GuardDuty
- D. Amazon CloudWatch

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/waf-block-common-attacks/>

QUESTION 556

Which AWS feature grants temporary access to specific AWS resources?

- A. AWS IAM Access Analyzer
- B. Service control policies (SCPs)
- C. Access control lists (ACLs)
- D. IAM roles

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_use-resources.html



Using temporary credentials in Amazon EC2 instances

If you want to run AWS CLI commands or code inside an EC2 instance, the recommended way to get credentials is to use roles for Amazon EC2. You create an IAM role that specifies the permissions that you want to grant to applications that run on the EC2 instances. When you launch the instance, you associate the role with the instance.

Applications, AWS CLI, and Tools for Windows PowerShell commands that run on the instance can then get automatic temporary security credentials from the instance metadata. You do not have to explicitly get the temporary security credentials. The AWS SDKs, AWS CLI, and Tools for Windows PowerShell automatically get the credentials from the EC2 instance metadata service and use them. The temporary credentials have the permissions that you define for the role that is associated with the instance.

For more information and for examples, see the following:

- [Using IAM Roles to Grant Access to AWS Resources on Amazon Elastic Compute Cloud — AWS SDK for Java](#)
- [Granting Access Using an IAM Role — AWS SDK for .NET](#)
- [Creating a Role — AWS SDK for Ruby](#)

QUESTION 557

Which AWS service can be used to manually launch instances based on resource requirements?

- A. Amazon EBS
- B. Amazon S3
- C. Amazon EC2
- D. Amazon ECS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 558

Which AWS service should be used to migrate a company's on-premises MySQL database to Amazon RDS?

- A. AWS Direct Connect
- B. AWS Server Migration Service (AWS SMS)
- C. AWS Database Migration Service (AWS DMS)
- D. AWS Schema Conversion Tool (AWS SCT)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/migrate-mysql-rds-dms/>

QUESTION 559

Which tool can be used to identify scheduled changes to the AWS infrastructure?

- A. AWS Personal Health Dashboard
- B. AWS Trusted Advisor
- C. Billing Dashboard
- D. AWS Config

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:

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

AWS Personal Health Dashboard provides alerts and guidance for AWS events that might affect your environment. While the Service Health Dashboard shows the general status of AWS services, the Personal Health Dashboard provides proactive and transparent notifications about your specific AWS environment.

All AWS customers can access the Personal Health Dashboard. The Personal Health Dashboard shows recent events to help you manage active events, and shows proactive notifications so that you can plan for scheduled activities. Use these alerts to get notified about changes that can affect your AWS resources, and then follow the guidance to diagnose and resolve issues.

QUESTION 560

A company wants to reduce the physical compute footprint that developers use to run code.
Which service would meet that need by enabling serverless architectures?

- A. Amazon Elastic Compute Cloud (Amazon EC2)
- B. AWS Lambda
- C. Amazon DynamoDB
- D. AWS CodeCommit

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:

AWS Lambda is an integral part of coding on AWS. It reduces physical compute footprint by utilizing aws cloud services to run code.



QUESTION 561

Which of the following is an important architectural design principle when designing cloud applications?

- A. Use multiple Availability Zones.
- B. Use tightly coupled components.
- C. Use open source software.
- D. Provision extra capacity.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Data Center resilience is practiced through Availability Zones across data centers that reduce the impact of failures.

Fault isolation improvement can be made to traditional horizontal scaling by sharding (a method of grouping instances into groups called shards, instead of sending the traffic from all users to every node like in the traditional IT structure.)

Reference: <https://www.botmetric.com/blog/aws-cloud-architecture-design-principles/>

QUESTION 562

A company has a 500 TB image repository that needs to be transported to AWS for processing.
Which AWS service can import this data MOST cost-effectively?

- A. AWS Snowball
- B. AWS Direct Connect
- C. AWS VPN

D. Amazon S3

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/storage/migrating-hundreds-of-tb-of-data-to-amazon-s3-with-aws-datasync/>

QUESTION 563

Which AWS service will help a company identify the user who deleted an Amazon EC2 instance yesterday?

- A. Amazon CloudWatch
- B. AWS Trusted Advisor
- C. AWS CloudTrail
- D. Amazon Inspector

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/cloudtrail/>

QUESTION 564

In which scenario should Amazon EC2 Spot Instances be used?

- A. A company wants to move its main website to AWS from an on-premises web server.
- B. A company has a number of application services whose Service Level Agreement (SLA) requires 99.999% uptime.
- C. A company's heavily used legacy database is currently running on-premises.
- D. A company has a number of infrequent, interruptible jobs that are currently using On-Demand Instances.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-leveraging-ec2-spot-instances/spot-instanceinterruptions.html>

QUESTION 565

Which of the following is the customer's responsibility under the AWS shared responsibility model?

- A. Patching underlying infrastructure
- B. Physical security
- C. Patching Amazon EC2 instances
- D. Patching network infrastructure

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 566

What is the MINIMUM AWS Support plan level that will provide users with access to the AWS Support API?

- A. Developer
- B. Enterprise
- C. Business
- D. Basic

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 567

Which features or services can be used to monitor costs and expenses for an AWS account? (Choose two.)

- A. AWS Cost and Usage report
- B. AWS product pages
- C. AWS Simple Monthly Calculator
- D. Billing alerts and Amazon CloudWatch alarms
- E. AWS Price List API

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference:

https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/monitor_estimated_charges_with_cloudwatch.html



QUESTION 568

Which of the following steps should be taken by a customer when conducting penetration testing on AWS?

- A. Conduct penetration testing using Amazon Inspector, and then notify AWS support.
- B. Request and wait for approval from the customer's internal security team, and then conduct testing.
- C. Notify AWS support, and then conduct testing immediately.
- D. Request and wait for approval from AWS support, and then conduct testing.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS customers are welcome to carry out security assessments or penetration tests against their AWS infrastructure without prior approval for 8 services. Reference: <https://aws.amazon.com/security/penetration-testing/>

QUESTION 569

What is an example of high availability in the AWS Cloud?

- A. Consulting AWS technical support at any time day or night
- B. Ensuring an application remains accessible, even if a resource fails
- C. Making any AWS service available for use by paying on demand
- D. Deploying in any part of the world using AWS Regions

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/startups/high-availability-for-mere-mortals/>**QUESTION 570**

A company wants to migrate its applications to a VPC on AWS. These applications will need to access on-premises resources.

What combination of actions will enable the company to accomplish this goal? (Choose two.)

- A. Use the AWS Service Catalog to identify a list of on-premises resources that can be migrated.
- B. Build a VPN connection between an on-premises device and a virtual private gateway in the new VPC.
- C. Use Amazon Athena to query data from the on-premises database servers.
- D. Connect the company's on-premises data center to AWS using AWS Direct Connect.
- E. Leverage Amazon CloudFront to restrict access to static web content provided through the company's on-premises web servers.

Correct Answer: BD**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/apn/amazon-vpc-for-on-premises-network-engineers-part-one/>**QUESTION 571**

Which of the following IT tasks does AWS perform to offload a company's IT resource management responsibilities?

(Choose two.)

- A. Configuring operating system firewalls
- B. Setting up access controls for data
- C. Backing up databases
- D. Configuring database user accounts
- E. Installing operating systems

**Correct Answer:** CE**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 572**

Which AWS service or feature helps restrict the AWS services, resources, and individual API actions the users and roles in each member account can access?

- A. Amazon Cognito
- B. AWS Organizations
- C. AWS Shield
- D. AWS Firewall Manager

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: https://docs.aws.amazon.com/organizations/latest/userguide/orgs_introduction.html**QUESTION 573**

How does AWS shorten the time to provision IT resources?

- A. It supplies an online IT ticketing platform for resource requests.
- B. It supports automatic code validation services.
- C. It provides the ability to programmatically provision existing resources.
- D. It automates the resource request process from a company's IT vendor list.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 574

Under the AWS shared responsibility model, the customer manages which of the following? (Choose two.)

- A. Decommissioning of physical storage devices
- B. Security group and ACL configuration
- C. Patch management of an Amazon RDS instance operating system
- D. Controlling physical access to data centers
- E. Patch management of an Amazon EC2 instance operating system

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.whizlabs.com/blog/aws-security-shared-responsibility/>



QUESTION 575

Which AWS service or feature allows a user to establish a dedicated network connection between a company's on-premises data center and the AWS Cloud?

- A. AWS Direct Connect
- B. VPC peering
- C. AWS VPN
- D. Amazon Route 53

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.stratoscale.com/blog/cloud/build-secure-tunnel-on-prem-data-center-amazoncloud/#:~:text=AWS%20Direct%20Connect%20allows%20you,that%20provide%20connectivity%20to%20AWS.>

QUESTION 576

Which AWS service or feature can be used to find availability status information on all AWS services?

- A. AWS Personal Health Dashboard
- B. AWS CloudTrail
- C. AWS Service Health Dashboard
- D. Amazon CloudWatch

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://status.aws.amazon.com/>

QUESTION 577

A company has multiple departments. Each department uses its own AWS account.
Which AWS service or tool can the company use to combine the billing for all accounts into one bill?

- A. Amazon Forecast
- B. AWS Budgets
- C. AWS Organizations
- D. AWS Marketplace

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>

QUESTION 578

An ecommerce company recently started using the AWS Cloud.
Which security-related tasks are the company's responsibility? (Choose two.)

- A. Restrict who is allowed physical access to the hosts that run the company's Amazon EC2 instances.
- B. Install security patches on Amazon EC2 Linux instances.
- C. Choose to encrypt data at rest that is stored on Amazon S3.
- D. Wipe Amazon Elastic Block Store (Amazon EBS) volumes clean before they are decommissioned.
- E. Conduct database patching for Amazon RDS instances.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/AmazonS3/latest/userguide/UsingEncryption.html>
<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/rds-custom.html>

QUESTION 579

Which of the following is a component of the AWS Global Infrastructure?

- A. Amazon Alexa
- B. AWS Regions
- C. Amazon Lightsail
- D. AWS Organizations

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/about-aws/global-infrastructure/>

QUESTION 580

A company previously lost data that was stored in an on-premises data center. To protect against future loss of data, the company wants to use AWS to automatically launch thousands of its machines in a fully provisioned state in minutes, in a format that supports data restoration.
Which AWS service should the company use to meet these requirements?

- A. AWS Direct Connect
- B. AWS Storage Gateway
- C. CloudEndure Disaster Recovery
- D. AWS Backup

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/prescriptive-guidance/latest/backup-recovery/backup-recovery.pdf> (35)

QUESTION 581

What is a value proposition of the AWS Cloud?

- A. AWS is responsible for security in the AWS Cloud
- B. No long-term contract is required
- C. Provision new servers in days
- D. AWS manages user applications in the AWS Cloud

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://d1.awsstatic.com/whitepapers/aws-whitepaper-business-value-of-aws.pdf>



QUESTION 582

How does AWS charge for AWS Lambda?

- A. Users bid on the maximum price they are willing to pay per hour.
- B. Users choose a 1-, 3- or 5-year upfront payment term.
- C. Users pay for the required permanent storage on a file system or in a database.
- D. Users pay based on the number of requests and consumed compute resources.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Lambda is charging its users by the number of requests for their functions and by the duration, which is the time the code needs to execute. When code starts running in response to an event, AWS Lambda counts a request. It will charge the total number of requests across all of the functions used. Duration is calculated by the time when your code started executing until it returns or until it is terminated, rounded up near to 100ms. The AWS Lambda pricing depends on the amount of memory that the user used to allocate to the function. Reference: <https://dashbird.io/blog/aws-lambda-pricing-model-explained/>

QUESTION 583

Which of the following security-related services does AWS offer? (Choose two.)

- A. Multi-factor authentication physical tokens
- B. AWS Trusted Advisor security checks
- C. Data encryption
- D. Automated penetration testing
- E. Amazon S3 copyrighted content detection

Correct Answer: BC

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/security/>**QUESTION 584**

Which AWS service or tool helps identify underutilized Amazon EC2 instances and idle Amazon RDS DB instances at no additional charge?

- A. Cost Explorer
- B. AWS Budgets
- C. AWS Organizations
- D. AWS Trusted Advisor

Correct Answer: D**Section:** (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>**QUESTION 585**

Which task is an AWS responsibility when a workload is running in Amazon RDS?

- A. Creating the database table
- B. Updating the database schema
- C. Installing the database engine
- D. Dropping the database records

Correct Answer: C**Section:** (none)

Explanation

Explanation/Reference:**QUESTION 586**

Which AWS Trusted Advisor feature is available exclusively to users with AWS Business Support or AWS Enterprise Support?

- A. Notification setup
- B. Refresh checks
- C. AWS Support API
- D. Action links

Correct Answer: C**Section:** (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/>

AWS Trusted Advisors provides recommendations that help you follow AWS best practices. Trusted Advisor evaluates your account by using checks. These checks identify ways to optimize your AWS infrastructure, improve security and performance, reduce costs, and monitor service quotas. You can then follow the check recommendations to optimize your services and resources.

AWS Basic Support and AWS Developer Support customers can access core security checks and all checks for service quotas. AWS Business Support and AWS Enterprise Support customers can access all checks, including cost optimization, security, fault tolerance, performance, and service quotas. For a complete list of checks and descriptions, see the [Trusted Advisor Best Practices](#).

QUESTION 587

Which AWS service provides on-demand of AWS security and compliance documentation?

- A. AWS Directory Service
- B. AWS Artifact
- C. AWS Trusted Advisor
- D. Amazon Inspector

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference:

<https://aws.amazon.com/artifact/#:~:text=AWS%20Artifact%20is%20your%20go,reports%20and%20select%20online%20agreements.>

QUESTION 588

A company requires a dedicated network connection between its on-premises servers and the AWS Cloud.

Which AWS service should be used?

- A. AWS VPN
- B. AWS Direct Connect
- C. Amazon API Gateway
- D. Amazon Connect

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

You can use AWS Direct Connect to establish a private virtual interface from your on-premise network directly to your Amazon VPC, providing you with a private, high bandwidth network connection between your network and your VPC. With multiple virtual interfaces, you can even establish private connectivity to multiple VPCs while maintaining network isolation.

Reference: <https://aws.amazon.com/directconnect/>

QUESTION 589

A global company is building a simple time-tracking mobile app. The app needs to operate globally and must store collected data in a database. Data must be accessible from the AWS Region that is closest to the user. What should the company do to meet these data storage requirements with the LEAST amount of operational overhead?

- A. Use Amazon EC2 in multiple Regions to host separate databases.
- B. Use Amazon RDS cross-Region replication.
- C. Use Amazon DynamoDB global tables.



D. Use AWS Database Migration Service (AWS DMS).

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Hundreds of thousands of AWS customers have chosen DynamoDB as their key-value and document database for mobile, web, gaming, ad tech, IoT, and other applications that need low-latency data access at any scale. Create a new table for your application and let DynamoDB handle the rest. Reference: <https://aws.amazon.com/dynamodb/>

QUESTION 590

Which guidelines are key AWS architectural design principles? (Choose two.)

- A. Design for fixed resources.
- B. Build scalable architectures.
- C. Use tightly coupled components.
- D. Use managed services when possible.
- E. Design for human interaction

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.botmetric.com/blog/aws-cloud-architecture-design-principles/>

QUESTION 591

A Cloud Practitioner is developing a disaster recovery plan and intends to replicate data between multiple geographic areas. Which of the following meets these requirements?

- A. AWS Accounts
- B. AWS Regions
- C. Availability Zones
- D. Edge locations

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.botmetric.com/blog/having-a-disaster-recovery-plan-is-pivotal-the-dos-and-donts-on-aws-cloud/>

QUESTION 592

What is the recommended method to request penetration testing on AWS resources?

- A. Open a support case
- B. Fill out the Penetration Testing Request Form
- C. Request a penetration test from your technical account manager
- D. Contact your AWS sales representative

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 593

A company is considering moving its on-premises data center to AWS. What factors should be included in doing a Total Cost of Ownership (TCO) analysis? (Choose two.)

- A. Amazon EC2 instance availability
- B. Power consumption of the data center
- C. Labor costs to replace old servers
- D. Application developer time
- E. Database engine capacity

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 594

Which of the following is an AWS database service?

- A. Amazon Redshift
- B. Amazon Elastic Block Store (Amazon EBS)
- C. Amazon S3 Glacier
- D. AWS Snowball

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.sisense.com/glossary/redshift-database/>



What is a Redshift Database?

A Redshift Database is a cloud-based, big data warehouse solution offered by Amazon. The platform provides a storage system that lets companies store petabytes of data in easy-to-access "clusters" that can be queried in parallel.

Each of these nodes can be accessed independently by users and applications. Redshift is designed to be used with a variety of data sources and data analytics tools and is compatible with several existing SQL-based clients.

The platform's architecture makes it easy to create a Redshift connection to a variety of business intelligence tools.

QUESTION 595

What is an advantage of using the AWS Cloud over a traditional on-premises solution?

- A. Users do not have to guess about future capacity needs.
- B. Users can utilize existing hardware contracts for purchases.
- C. Users can fix costs no matter what their traffic is.
- D. Users can avoid audits by using reports from AWS.

Correct Answer: A

Section: (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://data-flair.training/blogs/aws-advantages/>**ii. No Capacity Limits**

Organizations launch different projects and they guess what capacity they will need. AWS helps them by providing this capacity at a minimum cost. Through this benefit, their workload is decreased and they can focus and build different ideas.

The customers predict the capacity and they pay higher prices than that but AWS provides them capacity at low-cost. The moment you feel like you should increase your capacity you can do it freely.

Moreover, if you realize that you are not in need of so much storage you can get back to the previous storage and all you have to pay for what you use.

QUESTION 596

What is an AWS Cloud design best practice?

- A. Tight coupling of components
- B. Single point of failure
- C. High availability
- D. Overprovisioning of resources

Correct Answer: C**Section: (none)****Explanation****Explanation/Reference:****QUESTION 597**

A company must keep records of all resource changes that are made through the AWS Management Console and AWS APIs. Which AWS service should the company use to meet this requirement?

- A. Amazon CloudWatch
- B. AWS CloudTrail
- C. AWS X-Ray
- D. Amazon Inspector

Correct Answer: B**Section: (none)****Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/cloudtrail/>**QUESTION 598**

Which AWS IAM feature allows developers to access AWS services through the AWS CLI?

- A. API keys
- B. Access keys
- C. User names/Passwords
- D. SSH keys

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

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

QUESTION 599

A company wants to migrate to AWS and use the same security software it uses on premises. The security software vendor offers its security software as a service on AWS. Where can the company purchase the security solution?

- A. AWS Partner Solutions Finder
- B. AWS Support Center
- C. AWS Management Console
- D. AWS Marketplace

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/marketplace>

QUESTION 600

When comparing AWS Cloud with on-premises Total Cost of Ownership, which expenses must be considered? (Choose two.)

- A. Physical storage hardware
- B. Operating system administration
- C. Network infrastructure of data center
- D. Project management
- E. Database schema development



Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 601

A company wants to configure a dedicated connection between its on-premises IT infrastructure and resources in an AWS Region. The company also wants to reduce network latency and congestion. Which AWS service or feature should the company choose?

- A. AWS VPN
- B. AWS PrivateLink
- C. Amazon Connect
- D. AWS Direct Connect

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/directconnect/>

How it works

The AWS Direct Connect cloud service is the shortest path to your AWS resources. While in transit, your network traffic remains on the AWS global network and never touches the public internet. This reduces the chance of hitting bottlenecks or unexpected increases in latency. When creating a new connection, you can choose a hosted connection provided by an AWS Direct Connect Delivery Partner, or choose a dedicated connection from AWS—and deploy at over 100 AWS Direct Connect Locations around the globe. With AWS Direct Connect SiteLink, you can send data between AWS Direct Connect locations to create private network connections between the offices and data centers in your global network.

QUESTION 602

A company has a business-critical Amazon RDS for MySQL DB instance that resides in a single Availability Zone. Which solution will improve the availability of the DB instance?

- A. Convert the DB instance into a multi-Region deployment.
- B. Create an Amazon Simple Queue Service (Amazon SQS) queue in the same AWS Region to manage writes to the DB instance.
- C. Convert the DB instance into a Multi-AZ deployment.
- D. Create an Amazon Simple Queue Service (Amazon SQS) queue in a different AWS Region to manage writes to the DB instance.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/rds/features/multiaz/#:~:text>To%20create%20a%20new%20Multi,in%20the%20AWS%20Management%20Console>

Amazon RDS Multi-AZ deployments provide enhanced availability and durability for RDS database (DB) instances, making them a natural fit for production database workloads. When you provision a Multi-AZ DB Instance, Amazon RDS automatically creates a primary DB Instance and synchronously replicates the data to a standby instance in a different Availability Zone (AZ). Each AZ runs on its own physically distinct, independent infrastructure, and is engineered to be highly reliable. In case of an infrastructure failure, Amazon RDS performs an automatic failover to the standby (or to a read replica in the case of Amazon Aurora), so that you can resume database operations as soon as the failover is complete. Since the endpoint for your DB Instance remains the same after a failover, your application can resume database operation without the need for manual administrative intervention.

QUESTION 603

Which VPC component provides a layer of security at the subnet level?

- A. Security groups
- B. Network ACLs
- C. NAT gateways
- D. Route tables

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html

VCEup

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. When you launch an instance in a VPC, you can assign up to five security groups to the instance. Security groups act at the instance level, not the subnet level. Therefore, each instance in a subnet in your VPC can be assigned to a different set of security groups.

If you launch an instance using the Amazon EC2 API or a command line tool and you don't specify a security group, the instance is automatically assigned to the default security group for the VPC. If you launch an instance using the Amazon EC2 console, you have an option to create a new security group for the instance.

QUESTION 604

Which action will provide documentation to help a company evaluate whether its use of the AWS Cloud is compliant with local regulatory standards?

- A. Running Amazon GuardDuty
- B. Using AWS Artifact
- C. Creating an AWS Support ticket
- D. Evaluating AWS CloudTrail logs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and select online agreements. Reference: <https://aws.amazon.com/artifact/>

QUESTION 605

What is the LEAST expensive AWS Support plan that provides a designated AWS technical account manager (TAM)?

- A. AWS Developer Support
- B. AWS Enterprise Support
- C. AWS Basic Support
- D. AWS Business Support

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 606

A user is running an application on AWS and notices that one or more AWS-owned IP addresses are involved in a distributed denial-of-service (DDoS) attack. Who should the user contact FIRST about this situation?

- A. AWS Premium Support
- B. AWS Technical Account Manager
- C. AWS Solutions Architect

D. AWS Abuse team

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>

- **Denial-of-service (DoS) attacks:** Your logs show that one or more AWS-owned IP addresses are used to flood ports on your resources with packets. You also believe that this is an attempt to overwhelm or crash your server or the software running on your server.
- **Intrusion attempts:** Your logs show that one or more AWS-owned IP addresses are used to attempt to log in to your resources.
- **Hosting prohibited content:** You have evidence that AWS resources are used to host or distribute prohibited content, such as illegal content or copyrighted content without the consent of the copyright holder.
- **Distributing malware:** You have evidence that AWS resources are used to distribute software that was knowingly created to compromise or cause harm to computers or machines that it's installed on.

If you suspect that AWS resources are used for abusive purposes, contact the AWS Trust & Safety team using the Report Amazon AWS abuse form, or by contacting abuse@amazonaws.com. Provide all the necessary information, including logs in plaintext, email headers, and so on, when you submit your request.

The AWS Trust & Safety team might forward log details as-is, but they don't forward personally identifiable information unless those details are required for the investigation, or unless explicit permission is given to do so.

QUESTION 607

A Cloud Practitioner needs a consistent and dedicated connection between AWS resources and an on-premises system. Which AWS service can fulfill this requirement?

- A. AWS Direct Connect
- B. AWS VPN
- C. Amazon Connect
- D. AWS Data Pipeline

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:

You can use AWS Direct Connect to establish a private virtual interface from your on-premise network directly to your Amazon VPC, providing you with a private, high bandwidth network connection between your network and your VPC. With multiple virtual interfaces, you can even establish private connectivity to multiple VPCs while maintaining network isolation.

Reference: <https://aws.amazon.com/directconnect/>

QUESTION 608

A cloud practitioner needs an effective method to decrease application latency and increase performance for end users. Which services will help? (Choose two.)

- A. Amazon Elastic Container Service (Amazon ECS) for Kubernetes
- B. Amazon S3
- C. Amazon AppStream 2.0
- D. Amazon ElastiCache
- E. Amazon CloudFront

Correct Answer: DE
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/database/latency-reduction-of-hybrid-architectures-with-amazon-elasticache/>

QUESTION 609

Under the shared responsibility model, which of the following is the customer responsible for?

- A. Ensuring that disk drives are wiped after use.
- B. Ensuring that firmware is updated on hardware devices.
- C. Ensuring that data is encrypted at rest.
- D. Ensuring that network cables are category six or higher.

Correct Answer: C

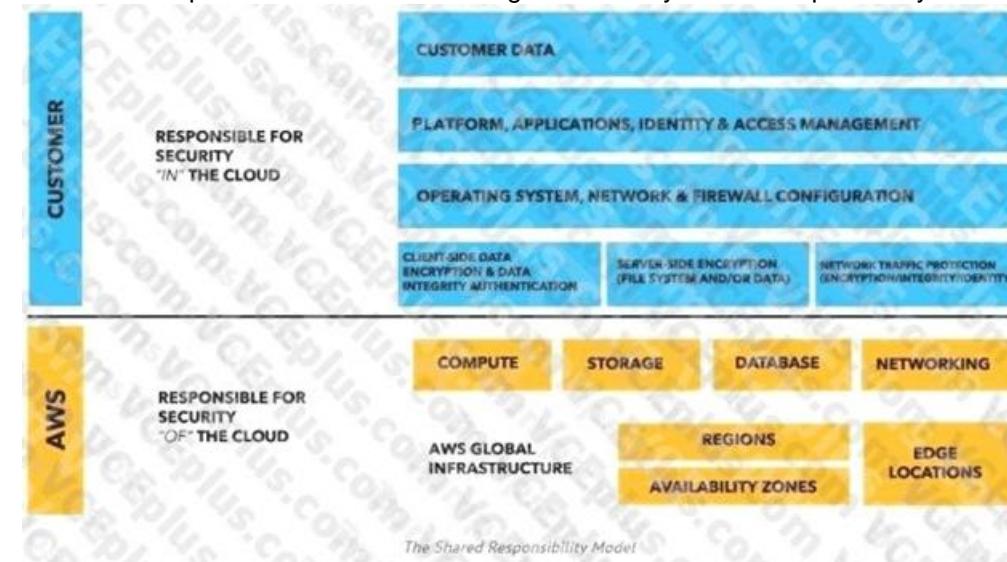
Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.whizlabs.com/blog/aws-security-shared-responsibility/>

**QUESTION 610**

Which of the following tasks can only be performed after signing in with AWS account root user credentials? (Choose two.)

- A. Closing an AWS account
- B. Creating a new IAM policy
- C. Changing AWS Support plans
- D. Attaching a role to an Amazon EC2 instance
- E. Generating access keys for IAM users

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 611

A company is undergoing a security audit. The audit includes security validation and compliance validation of the AWS infrastructure and services that the company uses. The auditor needs to locate compliance-related information and must download AWS security and compliance documents. These documents include the System and Organization Control (SOC) reports. Which AWS service or group can provide these documents?

- A. AWS Abuse team
- B. AWS Artifact
- C. AWS Support
- D. AWS Config

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://aws.amazon.com/artifact/faq/>

QUESTION 612
Which of the following is the customer's responsibility when using Amazon RDS?

- A. Patching the operating system of underlying hardware
- B. Controlling traffic to and from the database through security groups
- C. Running backups that enable point-in-time recovery of a DB instance
- D. Replacing failed DB instances

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/UsingWithRDS.html>

You can manage access to your Amazon RDS resources and your databases on a DB instance. The method you use to manage access depends on what type of task the user needs to perform with Amazon RDS:

- Run your DB instance in a virtual private cloud (VPC) based on the Amazon VPC service for the greatest possible network access control. For more information about creating a DB instance in a VPC, see [Amazon Virtual Private Cloud VPCs and Amazon RDS](#).
- Use AWS Identity and Access Management (IAM) policies to assign permissions that determine who is allowed to manage Amazon RDS resources. For example, you can use IAM to determine who is allowed to create, describe, modify, and delete DB instances, tag resources, or modify security groups.

QUESTION 613
Which Amazon S3 storage class is optimized to provide access to data with lower resiliency requirements, but rapid access when needed such as duplicate backups?

- A. Amazon S3 Standard
- B. Amazon S3 Glacier Deep Archive
- C. Amazon S3 One Zone-Infrequent Access
- D. Amazon S3 Glacier

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://aws.amazon.com/s3/storage-classes/>

QUESTION 614
Under the shared responsibility model, which of the following tasks are the responsibility of the AWS customer? (Choose two.)

- A. Ensuring that application data is encrypted at rest
- B. Ensuring that AWS NTP servers are set to the correct time
- C. Ensuring that users have received security training in the use of AWS services
- D. Ensuring that access to data centers is restricted

E. Ensuring that hardware is disposed of properly

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 615

Which AWS service can be used to encrypt data at rest?

- A. Amazon GuardDuty
- B. AWS Shield
- C. AWS Security Hub
- D. AWS Key Management Service (AWS KMS)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/security/how-to-protect-data-at-rest-with-amazon-ec2-instance-store-encryption/>

AWS Key Management Service (KMS) – AWS KMS is a managed service that enables easy creation and control of encryption keys used to encrypt data. KMS uses envelope encryption in which data is encrypted using a data key that is then encrypted using a master key. Master keys can also be used to encrypt and decrypt up to 4 kilobytes of data. In our solution, I use KMS encrypt/decrypt APIs to encrypt the encrypted file system's password. See more information about [envelope encryption](#).

QUESTION 616

Amazon Elastic File System (Amazon EFS) and Amazon FSx offer which type of storage?

- A. File storage
- B. Object storage
- C. Block storage
- D. Instance store

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://pilotcoresystems.com/insights/ebs-efs-fsx-s3-how-these-storage-options-differ>

QUESTION 617

When building a cloud Total Cost of Ownership (TCO) model, which cost elements should be considered for workloads running on AWS? (Choose three.)

- A. Compute costs
- B. Facilities costs
- C. Storage costs
- D. Data transfer costs
- E. Network infrastructure costs
- F. Hardware lifecycle costs

Correct Answer: ACE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 618

According to the AWS shared responsibility model, who is responsible for configuration management?

- A. It is solely the responsibility of the customer.
- B. It is solely the responsibility of AWS.
- C. It is shared between AWS and the customer.
- D. It is not part of the AWS shared responsibility model.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS maintains the configuration of its infrastructure devices, but a customer is responsible for configuring their own guest operating systems, databases, and applications. Reference: <https://aws.amazon.com/compliance/shared-responsibilitymodel/>

QUESTION 619

How can a customer increase security to AWS account logons? (Choose two.)

- A. Configure AWS Certificate Manager
- B. Enable Multi-Factor Authentication (MFA)
- C. Use Amazon Cognito to manage access
- D. Configure a strong password policy
- E. Enable AWS Organizations

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Your root account should always be protected by Multi-Factor Authentication (MFA). This additional layer of security helps protect against unauthorized logins to your account by requiring two factors: something you know (a password) and something you have (for example, an MFA device). AWS supports virtual and hardware MFA devices and U2F security keys.

Cognito can be used as an Identity Provider (IdP), where it stores and maintains users and credentials securely for your applications, or it can be integrated with OpenID Connect, SAML, and other popular web identity providers like Amazon.com.

Using Amazon Cognito, you can generate temporary access credentials for your clients to access AWS services, eliminating the need to store long-term credentials in client applications.

Reference: <https://aws.amazon.com/blogs/security/guidelines-for-protecting-your-aws-account-while-using-programmaticaccess/>

QUESTION 620

Which AWS service is a fully managed source control service that hosts secure Git-based repositories?

- A. AWS CodeCommit
- B. AWS CodeStar
- C. Amazon CodeGuru
- D. AWS CodePipeline

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS CodeCommit is a secure, highly scalable, managed source control service that hosts private Git repositories. It makes it easy for teams to securely collaborate on code with contributions encrypted in transit and at rest.

Reference: <https://aws.amazon.com/codecommit/>

QUESTION 621

A company needs software solutions that are hosted on the AWS platform or that are integrated with the AWS platform. The company needs solutions from independent software vendors as well as management and security vendors. Which group or team can provide these solutions?

- A. AWS technical account managers (TAMs)
- B. AWS Partner Network (APN) Consulting Partners
- C. AWS Concierge Support
- D. AWS Partner Network (APN) Technology Partners

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/partners/>

QUESTION 622

What time-savings advantage is offered with the use of Amazon Rekognition?

- A. Amazon Rekognition provides automatic watermarking of images.
- B. Amazon Rekognition provides automatic detection of objects appearing in pictures.
- C. Amazon Rekognition provides the ability to resize millions of images automatically.
- D. Amazon Rekognition uses Amazon Mechanical Turk to allow humans to bid on object detection jobs.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Rekognition Image is an image recognition service that detects objects, scenes, and faces; extracts text; recognizes celebrities; and identifies inappropriate content in images. It also allows you to search and compare faces. Rekognition Image is based on the same proven, highly scalable, deep learning technology developed by Amazon's computer vision scientists to analyze billions of images daily for Prime Photos.

Reference: <https://aws.amazon.com/rekognition/faqs/>

QUESTION 623

A company is building an application that needs to deliver images and videos globally with minimal latency.

Which approach can the company use to accomplish this in a cost effective manner?

- A. Deliver the content through Amazon CloudFront.
- B. Store the content on Amazon S3 and enable S3 cross-region replication.
- C. Implement a VPN across multiple AWS Regions.
- D. Deliver the content through AWS PrivateLink.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/industries/how-to-build-a-global-scalable-low-latency-and-secure-machinelearning-medical-imaging-analysis-platform-on-aws/>

QUESTION 624

Which is the minimum AWS Support plan that includes Infrastructure Event Management without additional costs?

- A. Enterprise
- B. Business

- C. Developer
- D. Basic

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 625

An architecture design includes Amazon EC2, an Elastic Load Balancer, and Amazon RDS.
What is the BEST way to get a monthly cost estimation for this architecture?

- A. Open an AWS Support case, provide the architecture proposal, and ask for a monthly cost estimation.
- B. Collect the published prices of the AWS services and calculate the monthly estimate.
- C. Use the AWS Simple Monthly Calculator to estimate the monthly cost.
- D. Use the AWS Total Cost of Ownership (TCO) Calculator to estimate the monthly cost.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/pricing-calculator/latest/userguide/aws-pc.pdf>

QUESTION 626

Which of the following can a customer use to enable single sign-on (SSO) to the AWS Console?

- A. Amazon Connect
- B. AWS Directory Service
- C. Amazon Pinpoint
- D. Amazon Rekognition

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Single sign-on only works when used on a computer that is joined to the AWS Directory Service directory. It cannot be used on computers that are not joined to the directory.

Reference: https://docs.aws.amazon.com/directoryservice/latest/admin-guide/ms_ad_single_sign_on.html

QUESTION 627

Which service provides a virtually unlimited amount of online highly durable object storage?

- A. Amazon Redshift
- B. Amazon Elastic File System (Amazon EFS)
- C. Amazon Elastic Container Service (Amazon ECS)
- D. Amazon S3

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/what-is-cloud-object-storage/>

QUESTION 628

What credential components are required to gain programmatic access to an AWS account? (Choose two.)

- A. An access key ID
- B. A primary key
- C. A secret access key
- D. A user ID
- E. A secondary key

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/general/latest/gr/aws-sec-cred-types.html>

QUESTION 629

Which AWS service acts as a data extract, transform, and load (ETL) tool to make it easy to prepare data for analytics?

- A. Amazon QuickSight
- B. Amazon Athena
- C. AWS Glue
- D. AWS Elastic Beanstalk

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/database/how-to-extract-transform-and-load-data-for-analytic-processing-usingaws-glue-part-2/>

One of the biggest challenges enterprises face is setting up and maintaining a reliable extract, transform, and load (ETL) process to extract value and insight from data. Traditional ETL tools are complex to use, and can take months to implement, test, and deploy. After the ETL jobs are built, maintaining them can be painful because data formats and schemas change frequently and new data sources need to be added all the time.

AWS Glue automates much of the undifferentiated heavy lifting involved with discovering, categorizing, cleaning, enriching, and moving data, so you can spend more time analyzing your data. AWS Glue automatically crawls your data sources, identifies data formats, and then suggests schemas and transformations. This means that you don't have to spend time hand-coding data flows.

QUESTION 630

A cloud practitioner needs to obtain AWS compliance reports before migrating an environment to the AWS Cloud.

How can these reports be generated?

- A. Contact the AWS Compliance team
- B. Download the reports from AWS Artifact
- C. Open a case with AWS Support
- D. Generate the reports with Amazon Macie

Correct Answer: A

Section: (none)

Explanation



Explanation/Reference:**QUESTION 631**

Which type of AWS storage is ephemeral and is deleted when an instance is stopped or terminated?

- A. Amazon EBS
- B. Amazon EC2 instance store
- C. Amazon EFS
- D. Amazon S3

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

When you stop or terminate an instance, every block of storage in the instance store is reset. Therefore, your data cannot be accessed through the instance store of another instance. Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/InstanceStorage.html>

QUESTION 632

Which actions represent best practices for using AWS IAM? (Choose two.)

- A. Configure a strong password policy
- B. Share the security credentials among users of AWS accounts who are in the same Region
- C. Use access keys to log in to the AWS Management Console
- D. Rotate access keys on a regular basis
- E. Avoid using IAM roles to delegate permissions

Correct Answer: AD**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>

QUESTION 633

Which AWS service or feature can help a company determine if it has Amazon S3 buckets that are publicly available?

- A. AWS Service Health Dashboard
- B. Amazon CloudWatch Logs
- C. AWS Trusted Advisor
- D. AWS Service Catalog

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: https://d1.awsstatic.com/product-marketing/S3/Amazon_S3_Security_eBook_2020.pdf

QUESTION 634

A company wants to store data with high availability, encrypt the data at rest, and have direct access to the data over the internet. Which AWS service will meet these requirements MOST cost-effectively?

- A. Amazon Elastic Block Store (Amazon EBS)
- B. Amazon S3

- C. Amazon Elastic File System (Amazon EFS)
- D. AWS Storage Gateway

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

You can encrypt data using any encryption method you want, and then upload the encrypted data using the Amazon Simple Storage Service (Amazon S3) APIs. Most common application languages include cryptographic libraries that allow you to perform encryption in your applications. Two commonly available open source tools are Bouncy Castle and OpenSSL. Once you have encrypted an object and safely stored the key in your KMI, the encrypted object can be uploaded to Amazon S3 directly with a PUT request.

Reference: <https://d0.awsstatic.com/whitepapers/aws-securing-data-at-rest-with-encryption.pdf>

QUESTION 635

Which AWS service provides the ability to manage infrastructure as code?

- A. AWS CodePipeline
- B. AWS CodeDeploy
- C. AWS Direct Connect
- D. AWS CloudFormation

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS CloudFormation provides a common language for you to describe and provision all the infrastructure resources in your cloud environment. CloudFormation allows you to use a simple text file to model and provision, in an automated and secure manner, all the resources needed for your applications across all regions and accounts. This file serves as the single source of truth for your cloud environment. Reference: <https://aws.amazon.com/cloudformation/>

QUESTION 636

Where can AWS compliance and certification reports be downloaded?

- A. AWS Artifact
- B. AWS Concierge
- C. AWS Certificate Manager
- D. AWS Trusted Advisor

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

WS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS's security and compliance reports and select online agreements.

The AWS SOC 2 report is particularly helpful for completing questionnaires because it provides a comprehensive description of the implementation and operating effectiveness of AWS security controls. Another useful document is the Executive Briefing within the AWS FedRAMP Partner Package. Reference: <https://aws.amazon.com/compliance/faq/>

QUESTION 637

Which AWS service allows for effective cost management of multiple AWS accounts?

- A. AWS Organizations
- B. AWS Trusted Advisor
- C. AWS Direct Connect
- D. Amazon Connect

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/aws/aws-organizations-policy-based-management-for-multiple-aws-accounts/>**QUESTION 638**

Which AWS service supports a hybrid architecture that gives users the ability to extend AWS infrastructure, AWS services, APIs, and tools to data centers, co-location environments, or on-premises facilities?

- A. AWS Snowmobile
- B. AWS Local Zones
- C. AWS Outposts
- D. AWS Fargate

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/outposts/>**QUESTION 639**

Which type of AWS infrastructure deployment puts AWS compute, storage, database, and other select services closer to end users to run latency-sensitive applications?

- A. AWS Regions
- B. Availability Zones
- C. Local Zones
- D. Edge locations

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/about-aws/globalinfrastructure/localzones/features/#:~:text=AWS%20Local%20Zones%20are%20a,millisecond%20latency%20to%20endusers>**QUESTION 640**

Which AWS service enables risk auditing of an AWS account by tracking and recording user actions and source IP addresses?

- A. AWS X-Ray
- B. AWS Shield
- C. AWS Trusted Advisor
- D. AWS CloudTrail

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference:

https://aws.amazon.com/cloudtrail/#:~:text=AWS%20CloudTrail%20is%20a%20service,actions%20across%20your%20AWS%20infrastructure

QUESTION 641

A company hosts images in an Amazon S3 bucket for a public-facing website that is viewed by millions of users around the globe.
Which AWS service will deliver this content with reduced latency?

- A. AWS WAF
- B. Amazon CloudWatch
- C. Amazon CloudFront
- D. AWS CloudFormation

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/getting-started/hands-on/deliver-content-faster/>

QUESTION 642

Which AWS Cloud benefit is shown by an architecture's ability to withstand failures with minimal downtime?

- A. Agility
- B. Elasticity
- C. Scalability
- D. High availability

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 643

Which AWS storage service is designed to transfer petabytes of data in and out of the cloud?

- A. AWS Storage Gateway
- B. Amazon S3 Glacier Deep Archive
- C. Amazon Lightsail
- D. AWS Snowball

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/snowball/latest/ug/transfer-petabytes.html>

QUESTION 644

Which AWS service can be used to privately store and manage versions of source code?

- A. AWS CodeBuild
- B. AWS CodeCommit
- C. AWS CodePipeline
- D. AWS CodeStar

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 645

A retail company is building a new mobile app. The company is evaluating whether to build the app at an on-premises data center or in the AWS Cloud. Which of the following are benefits of building this app in the AWS Cloud? (Choose two.)

- A. A large, upfront capital expense and low variable expenses
- B. Increased speed for trying out new projects
- C. Complete control over the physical security of the infrastructure
- D. Flexibility to scale up in minutes as the application becomes popular
- E. Ability to pick the specific data centers that will host the application servers

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 646

Within the AWS shared responsibility model, who is responsible for security and compliance?

- A. The customer is responsible.
- B. AWS is responsible.
- C. AWS and the customer share responsibility.
- D. AWS shares responsibility with the relevant governing body.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Security and Compliance is a shared responsibility between AWS and the customer. This shared model can help relieve the customer's operational burden as AWS operates, manages and controls the components from the host operating system and virtualization layer down to the physical security of the facilities in which the service operates. Reference:
<https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 647

Which of the following technologies provides a secure network connection from on-premises to AWS?

- A. Virtual Private Network
- B. AWS Snowball
- C. Amazon Virtual Private Cloud (Amazon VPC)
- D. AWS Mobile Hub

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/apn/amazon-vpc-for-on-premises-network-engineers-part-one/>



Virtual Private Cloud (VPC)

A VPC is a set of contained subnets with a common Classless Inter-Domain Routing (CIDR) block (up to a /16 netmask) running in a single geographic area (Region) across multiple data centers (Availability Zones).

A VPC is like a virtual data center, except that it's physically spread out across Availability Zones. VPCs have network connectivity within the Region in which they are created. You can use Internet connectivity, virtual private network (VPN) connectivity, and VPC peering to connect VPCs to other networks. Address your VPC in RFC 1918 space so that it doesn't conflict with other parts of your network.

When an account has multiple VPCs, they are similar to virtual routing and forwarding (VRF) tables or contexts on some devices. If you build a service in one VPC and need to access it from another VPC, you will either need to peer the two VPCs or use a VPN to connect them.

Instances in new accounts (created after December 4, 2013) are launched into VPCs by default. There is a default VPC that differs from VPCs created by users, as explained in the [Amazon VPC documentation](#) and explained below.

QUESTION 648

Which AWS service enables users to deploy infrastructure as code by automating the process of provisioning resources?

- A. Amazon GameLift
- B. AWS CloudFormation
- C. AWS Data Pipeline
- D. AWS Glue

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS CloudFormation provides a common language for you to model and provision AWS and third party application resources in your cloud environment. AWS CloudFormation allows you to use programming languages or a simple text file to model and provision, in an automated and secure manner, all the resources needed for your applications across all regions and accounts. This gives you a single source of truth for your AWS and third party resources.

Reference: <https://aws.amazon.com/cloudformation/>

QUESTION 649

Which of the following Identity and Access Management (IAM) entities is associated with an access key ID and secret access key when using AWS Command Line Interface (AWS CLI)?

- A. IAM group
- B. IAM user
- C. IAM role
- D. IAM policy

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 650

A network engineer needs to establish a dedicated 10 Gbps network connection from an on-premises environment to AWS. Which AWS service or feature should the engineer use?

- A. Amazon Route 53
- B. AWS Direct Connect
- C. AWS PrivateLink
- D. AWS VPN

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Direct Connect can create a dedicated network connection between your premises and AWS. Reference:

<https://aws.amazon.com/directconnect/>

QUESTION 651

A financial services company wants to ensure that its AWS account activity is logged to meet regulatory requirements for logging, auditing, and governance. Which AWS service meets these requirements?

- A. AWS CloudTrail
- B. AWS Trusted Advisor
- C. AWS Config
- D. Amazon CloudWatch

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-user-guide.html>

AWS CloudTrail is an AWS service that helps you enable governance, compliance, and operational and risk auditing of your AWS account. Actions taken by a user, role, or an AWS service are recorded as events in CloudTrail. Events include actions taken in the AWS Management Console, AWS Command Line Interface, and AWS SDKs and APIs.

CloudTrail is enabled on your AWS account when you create it. When activity occurs in your AWS account, that activity is recorded in a CloudTrail event. You can easily view recent events in the CloudTrail console by going to Event history. For an ongoing record of activity and events in your AWS account, create a trail. For more information about CloudTrail pricing, see [AWS CloudTrail Pricing](#).

Visibility into your AWS account activity is a key aspect of security and operational best practices. You can use CloudTrail to view, search, download, archive, analyze, and respond to account activity across your AWS infrastructure. You can identify who or what took which action, what resources were acted upon, when the event occurred, and other details to help you analyze and respond to activity in your AWS account. Optionally, you can enable AWS CloudTrail Insights on a trail to help you identify and respond to unusual activity.

You can integrate CloudTrail into applications using the API, automate trail creation for your organization, check the status of trails you create, and control how users view CloudTrail events.

QUESTION 652

What does the Amazon S3 Intelligent-Tiering storage class offer?

- A. Payment flexibility by reserving storage capacity
- B. Long-term retention of data by copying the data to an encrypted Amazon Elastic Block Store (Amazon EBS) volume
- C. Automatic cost savings by moving objects between tiers based on access pattern changes
- D. Secure, durable, and lowest cost storage for data archival

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/about-aws/whats-new/2018/11/s3-intelligent-tiering/>

QUESTION 653

A company has an application with users in both Australia and Brazil. All the company infrastructure is currently provisioned in the Asia Pacific (Sydney) Region in Australia, and Brazilian users are experiencing high latency. What should the company do to reduce latency?

- A. Implement AWS Direct Connect for users in Brazil
- B. Provision resources in the South America (São Paulo) Region in Brazil
- C. Use AWS Transit Gateway to quickly route users from Brazil to the application
- D. Launch additional Amazon EC2 instances in Sydney to handle the demand

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/transit-gateway/>



QUESTION 654

A company is planning to migrate from on-premises to the AWS Cloud.

Which AWS tool or service provides detailed reports on estimated cost savings after migration?

- A. AWS Total Cost of Ownership (TCO) Calculator
- B. Cost Explorer
- C. AWS Budgets
- D. AWS Migration Hub

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/migrationhub/latest/ug/hub-api.pdf> (26)

QUESTION 655

Which method helps to optimize costs of users moving to the AWS Cloud?

- A. Paying only for what is used
- B. Purchasing hardware before it is needed
- C. Manually provisioning cloud resources
- D. Purchasing for the maximum possible load

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.cloudmanagementinsider.com/ways-to-optimize-aws-cost/>

QUESTION 656

A retail company needs to build a highly available architecture for a new ecommerce platform. The company is using the only AWS services that replicates data across multiple Availability Zones. Which AWS services should the company use to meet this requirement? (Choose two.)

- A. Amazon EC2
- B. Amazon Elastic Block Store (Amazon EBS)
- C. Amazon Aurora
- D. Amazon DynamoDB
- E. Amazon Redshift

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/rds/features/multiaz/#:~:text=Amazon%20Aurora%20further%20extends%20the,ways%2C%20across%20three%20Availability%20Zones>

QUESTION 657

A company wants to transfer petabytes of data as quickly as possible from on-premises locations to the AWS Cloud. Which AWS service should the company use?

- A. AWS Snowball
- B. AWS Global Accelerator
- C. Amazon S3 Transfer Acceleration
- D. Amazon Connect



Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/getting-started/projects/migrate-petabyte-scale-data/>

QUESTION 658

IT systems should be designed to reduce interdependencies, so that a change or failure in one component does not cascade to other components. This is an example of which principle of cloud architecture design?

- A. Scalability
- B. Loose coupling
- C. Automation
- D. Automatic scaling

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf (20)

QUESTION 659

Which component must be attached to a VPC to enable inbound Internet access?

- A. NAT gateway
- B. VPC endpoint
- C. VPN connection
- D. Internet gateway

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://d1.awsstatic.com/whitepapers/aws-security-whitepaper.pdf> (41, 42, 43)

QUESTION 660

Which of the following common IT tasks can AWS cover to free up company IT resources? (Choose two.)

- A. Patching databases software
- B. Testing application releases
- C. Backing up databases
- D. Creating database schema
- E. Running penetration tests

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 661

Which of the following is a managed AWS service that is used specifically for extract, transform, and load (ETL) data?

- A. Amazon Athena
- B. AWS Glue
- C. Amazon S3
- D. AWS Snowball Edge

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/glue/latest/dg/what-is-glue.html>

QUESTION 662

Which AWS service can be used to generate alerts based on an estimated monthly bill?

- A. AWS Config
- B. Amazon CloudWatch
- C. AWS X-Ray
- D. AWS CloudTrail

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

You can monitor your estimated AWS charges by using Amazon CloudWatch. When you enable the monitoring of estimated charges for your AWS account, the estimated charges are calculated and sent several times daily to CloudWatch as metric data.

Billing metric data is stored in the US East (N. Virginia) Region and represents worldwide charges. This data includes the estimated charges for every service in AWS that you use, in addition to the estimated overall total of your AWS charges.

Reference:

https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/monitor_estimated_charges_with_cloudwatch.html

QUESTION 663

Which of the following is a correct relationship between regions, Availability Zones, and edge locations?

- A. Data centers contain regions.
- B. Regions contain Availability Zones.
- C. Availability Zones contain edge locations.
- D. Edge locations contain regions.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://aws.amazon.com/about-aws/global-infrastructure/regions_az/#Region_Maps_and_Edge_Networks

QUESTION 664

A web developer is concerned that a DDoS attack could target an application.

Which AWS services or features can help protect against such an attack? (Choose two.)

- A. AWS Shield
- B. AWS CloudTrail
- C. Amazon CloudFront
- D. AWS Support Center
- E. AWS Service Health Dashboard

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/shield/>

QUESTION 665

Which AWS feature or service can be used to capture information about incoming and outgoing traffic in an AWS VPC infrastructure?

- A. AWS Config
- B. VPC Flow Logs
- C. AWS Trusted Advisor
- D. AWS CloudTrail

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs.html>

QUESTION 666

Which disaster recovery scenario offers the lowest probability of down time?



- A. Backup and restore
- B. Pilot light
- C. Warm standby
- D. Multi-site active-active

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Backup and Restore: a simple, straightforward, cost-effective method that backs up and restores data as needed. Keep in mind that because none of your data is on standby, this method, while cheap, can be quite time-consuming.

Pilot Light: This method keeps critical applications and data at the ready so that it can be quickly retrieved if needed.

Warm Standby: This method keeps a duplicate version of your business' core elements running on standby at all times, which makes for a little downtime and an almost seamless transition.

Multi-Site Solution: Also known as a Hot Standby, this method fully replicates your company's data/applications between two or more active locations and splits your traffic/usage between them. If a disaster strikes, everything is simply rerouted to the unaffected area, which means you'll suffer almost zero downtime. However, by running two separate environments simultaneously, you will obviously incur much higher costs.

Reference: <https://cloudranger.com/best-practices-aws-disaster-recovery-planning/>

QUESTION 667

What can users access from AWS Artifact?

- A. AWS security and compliance documents
- B. A download of configuration management details for all AWS resources
- C. Training materials for AWS services
- D. A security assessment of the applications deployed in the AWS Cloud

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

You can use AWS Artifact Reports to download AWS security and compliance documents, such as AWS ISO certifications, Payment Card Industry (PCI), and System and Organization Control (SOC) reports.

Reference: <https://aws.amazon.com/artifact/faq/>

QUESTION 668

A social media company needs to launch a new feature. The feature will give users the ability to share images that can be viewed by other users across the world with low latency. Which AWS service or feature should the company use to meet this requirement MOST cost-effectively?

- A. Amazon DynamoDB global tables
- B. AWS Direct Connect
- C. Amazon CloudFront
- D. AWS Outposts

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Securely deliver content with low latency and high transfer speeds.

Reference: <https://aws.amazon.com/cloudfront/>

QUESTION 669

A user should contact the AWS Abuse team to report which situations? (Choose two.)

- A. A DDoS attack is being made on an AWS resource.
- B. A SQL injection attack is being made from an IP address that is not an AWS address.
- C. AWS resources are being used to host objectionable or illegal content.

- D. A company's resources are being used in a way that is inconsistent with corporate policy.
- E. A company is receiving HTTPS requests on a web server that is serving HTTP.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>

QUESTION 670

Which AWS service can be used to track unauthorized API calls?

- A. AWS Config
- B. AWS CloudTrail
- C. AWS Trusted Advisor
- D. Amazon Inspector

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 671

A company has a MySQL database running on a single Amazon EC2 instance. The company now requires higher availability in the event of an outage. Which set of tasks would meet this requirement?

- A. Add an Application Load Balancer in front of the EC2 instance
- B. Configure EC2 Auto Recovery to move the instance to another Availability Zone
- C. Migrate to Amazon RDS and enable Multi-AZ
- D. Enable termination protection for the EC2 instance to avoid outages

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZ.html>

QUESTION 672

Which AWS service provides the capability to view end-to-end performance metrics and troubleshoot distributed applications?

- A. AWS Cloud9
- B. AWS CodeStar
- C. AWS Cloud Map
- D. AWS X-Ray

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference:

<https://aws.amazon.com/xray/#:~:text=AWS%20X%2DRay%20traces%20user,how%20your%20application%20is%20performing>

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. You can use X-Ray to analyze both applications in development and in production, from simple three-tier applications to complex microservices applications consisting of thousands of services.

QUESTION 673

Which task is AWS responsible for in the shared responsibility model for security and compliance?

- A. Granting access to individuals and services
- B. Encrypting data in transit
- C. Updating Amazon EC2 host firmware
- D. Updating operating systems

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:
AWS Compliance enables customers to establish and operate in an AWS security control environment. The shared responsibility model is part of AWS Compliance program. The Security of the cloud is managed by Amazon AWS provider. The Security in the cloud is responsibility of the customer. The customer is responsible for their information and data, their secure transmission, integrity, and encryption. Also, the customer is responsible for managing, support, patching and control of the guest operating system and AWS services provided like EC2. AWS customers retain control and ownership of their data. The AWS network provides significant protection against traditional network security issues and the customer can implement further protection. Reference: <https://www.whizlabs.com/blog/aws-security-shared-responsibility/>

QUESTION 674

A company with AWS Enterprise Support needs help understanding its monthly AWS bill and wants to implement billing best practices. Which AWS tool or resource is available to accomplish these goals?

- A. Resource tagging
- B. AWS Concierge Support team
- C. AWS Abuse team
- D. AWS Support

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/awsaccountbilling-aboutv2.pdf>

QUESTION 675

Which AWS service is used to provide encryption for Amazon EBS?

- A. AWS Certificate Manager
- B. AWS Systems Manager
- C. AWS KMS
- D. AWS Config

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/kms/latest/developerguide/services-ebs.html>

QUESTION 676

Which AWS service can be used to turn text into life-like speech?

- A. Amazon Polly
- B. Amazon Transcribe
- C. Amazon Rekognition
- D. Amazon Lex

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference:

<https://aws.amazon.com/polly/#:~:text=Amazon%20Polly%20is%20a%20service,synthesize%20natural%20sounding%20human%20speech.>

**QUESTION 677**

If each department within a company has its own AWS account, what is one way to enable consolidated billing?

- A. Use AWS Budgets on each account to pay only to budget.
- B. Contact AWS Support for a monthly bill.
- C. Create an AWS Organization from the payer account and invite the other accounts to join.
- D. Put all invoices into one Amazon Simple Storage Service (Amazon S3) bucket, load data into Amazon Redshift, and then run a billing report.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>

QUESTION 678

A company has a Java web application. The company wants to use auto deployment to create the AWS environment and deploy new versions of its application.

Which AWS service will meet these requirements?

- A. AWS Auto Scaling
- B. AWS Elastic Beanstalk
- C. AWS Control Tower
- D. Amazon EC2

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

You can simply upload your code and Elastic Beanstalk automatically handles the deployment. Reference:

<https://aws.amazon.com/elasticbeanstalk/>**QUESTION 679**

Which AWS service should a company use to continuously monitor the compliance of AWS resource configurations?

- A. AWS Organizations
- B. AWS Config
- C. AWS Artifact
- D. AWS Service Catalog

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference:

<https://aws.amazon.com/config/#:~:text=AWS%20Config%20is%20a%20service,recorded%20configurations%20against%20desired%20configurations>**QUESTION 680**

According to the AWS Well-Architected Framework, what change management steps should be taken to achieve reliability in the AWS Cloud? (Choose two.)

- A. Use AWS Config to generate an inventory of AWS resources
- B. Use service limits to prevent users from creating or making changes to AWS resources
- C. Use AWS CloudTrail to record AWS API calls into an auditable log file
- D. Use AWS Certificate Manager to whitelist approved AWS resources and services
- E. Use Amazon GuardDuty to validate configuration changes made to AWS resources

Correct Answer: AC**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 681**

A Cloud Practitioner needs to store data for 7 years to meet regulatory requirements.

Which AWS service will meet this requirement at the LOWEST cost?

- A. Amazon S3
- B. AWS Snowball
- C. Amazon Redshift
- D. Amazon S3 Glacier

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

S3 Glacier Deep Archive is Amazon S3's lowest-cost storage class and supports long-term retention and digital preservation for data that may be accessed once or twice in a year. It is designed for customers — particularly those in highly-regulated industries, such as the Financial Services, Healthcare, and Public Sectors — that retain data sets for 7-10 years or longer to meet regulatory compliance requirements. S3 Glacier Deep Archive can also be used for backup and disaster recovery use cases, and is a cost-effective and easy-to-manage alternative to magnetic tape systems, whether they are on-premises libraries or off-premises services.

Reference: <https://aws.amazon.com/s3/storage-classes/>

QUESTION 682

What does AWS Shield Standard provide?

- A. WAF rules
- B. DDoS protection
- C. Identity and Access Management (IAM) permissions and access to resources
- D. Data encryption

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Shield Standard provides protection for all AWS customers from common, most frequently occurring network and transport layer DDoS attacks that target your web site or application at no additional charge.

Reference: <https://aws.amazon.com/shield/pricing/>

QUESTION 683

Which of the following enables users to leverage the power of AWS services programmatically?

- A. AWS Command Line Interface (AWS CLI)
- B. AWS Trusted Advisor
- C. AWS CodeDeploy
- D. AWS Management Console

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/aws/category/aws-management-console/>

QUESTION 684

Which of the following are ways to improve security on AWS? (Choose two.)

- A. Using AWS Artifact
- B. Granting the broadest permissions to all IAM roles
- C. Running application code with AWS Cloud9
- D. Enabling multi-factor authentication (MFA) with Amazon Cognito
- E. Using AWS Trusted Advisor security checks

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/security/top-10-security-items-to-improve-in-your-aws-account/>

QUESTION 685

What is the customer's responsibility when using AWS Lambda?

- A. Operating system configuration
- B. Application management
- C. Platform management
- D. Code encryption

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://aws.amazon.com/lambda/security-overview-of-aws-lambda/>

QUESTION 686

According to the AWS shared responsibility model, which of the following are AWS responsibilities? (Choose two.)

- A. Network infrastructure and virtualization of infrastructure
- B. Security of application data
- C. Guest operating systems
- D. Physical security of hardware
- E. Credentials and policies

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 687

A company is running a self-managed Oracle database directly on Amazon EC2 for its steady-state database. The company wants to reduce compute costs. Which option should the company use to maximize savings over a 3-year term?

- A. EC2 Dedicated Instances
- B. EC2 Spot Instances
- C. EC2 Reserved Instances
- D. EC2 On-Demand Instances



Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 688

According to the AWS shared responsibility model, which task is the responsibility of AWS for workloads running on Amazon EC2?

- A. Updating the physical hardware
- B. Updating the operating system
- C. Updating the database engine
- D. Updating the user data

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:
Explanation:
Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 689

How does the AWS global infrastructure offer high availability and fault tolerance to its users?

- A. The AWS infrastructure is made up of multiple AWS Regions within various Availability Zones located in areas that have low flood risk, and are interconnected with low-latency networks and redundant power supplies.
- B. The AWS infrastructure consists of subnets containing various Availability Zones with multiple data centers located in the same geographic location.
- C. AWS allows users to choose AWS Regions and data centers so that users can select the closest data centers in different Regions.
- D. The AWS infrastructure consists of isolated AWS Regions with independent Availability Zones that are connected with low-latency networking and redundant power supplies.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/global-infrastructure.html>

QUESTION 690

Which AWS container service will help a user install, operate, and scale the cluster management infrastructure?

- A. Amazon Elastic Container Registry (Amazon ECR)
- B. AWS Elastic Beanstalk
- C. Amazon Elastic Container Service (Amazon ECS)
- D. Amazon Elastic Block Store (Amazon EBS)

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 691

Which statement is true about AWS global infrastructure?

- A. Availability Zones can span multiple AWS Regions.
- B. A VPC can have different subnets in different AWS Regions.
- C. AWS Regions consist of multiple Availability Zones.
- D. A single subnet can span multiple Availability Zones.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://digitalcloud.training/certification-training/aws-certified-cloud-practitioner/aws-global-infrastructure/>

QUESTION 692

A user must meet compliance and software licensing requirements that state a workload must be hosted on a physical server.
Which Amazon EC2 instance pricing option will meet these requirements?

- A. Dedicated Hosts
- B. Dedicated Instances
- C. Spot Instances
- D. Reserved Instances

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/ec2/dedicated-hosts/>

QUESTION 693

Which architectural principle is used when deploying an Amazon Relational Database Service (Amazon RDS) instance in Multiple Availability Zone mode?

- A. Implement loose coupling.
- B. Design for failure.
- C. Automate everything that can be automated.
- D. Use services, not servers.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Amazon RDS Multi-AZ deployments provide enhanced availability and durability for Database (DB) Instances, making them a natural fit for production database workloads. When you provision a Multi-AZ DB Instance, Amazon RDS automatically creates a primary DB Instance and synchronously replicates the data to a standby instance in a different Availability Zone (AZ). Each AZ runs on its own physically distinct, independent infrastructure, and is engineered to be highly reliable. In case of an infrastructure failure, Amazon RDS performs an automatic failover to the standby (or to a read replica in the case of Amazon Aurora), so that you can resume database operations as soon as the failover is complete. Since the endpoint for your DB Instance remains the same after a failover, your application can resume database operation without the need for manual administrative intervention.

Reference: <https://aws.amazon.com/rds/details/multi-az/>

QUESTION 694

Which AWS characteristics make AWS cost effective for a workload with dynamic user demand? (Choose two.)

- A. High availability
- B. Shared security model
- C. Elasticity
- D. Pay-as-you-go pricing
- E. Reliability

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:**QUESTION 695**

Using AWS Identity and Access Management (IAM), what can be attached to an Amazon EC2 instance to make service requests?

- A. Group
- B. Role
- C. Policy
- D. Access key

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/iam/faqs/>

IAM role management**Q: What is an IAM role?**

An IAM role is an IAM entity that defines a set of permissions for making AWS service requests. IAM roles are not associated with a specific user or group. Instead, trusted entities assume roles, such as IAM users, applications, or AWS services such as EC2.

Q: What problems do IAM roles solve?

IAM roles allow you to delegate access with defined permissions to trusted entities without having to share long-term access keys. You can use IAM roles to delegate access to IAM users managed within your account, to IAM users under a different AWS account, or to an AWS service such as EC2.

Q: How do I get started with IAM roles?

You create a role in a way similar to how you create a user—name the role and attach a policy to it. For details, see [Creating IAM Roles](#).

QUESTION 696

Which AWS services make use of global edge locations? (Choose two.)

- A. AWS Fargate
- B. Amazon CloudFront
- C. AWS Global Accelerator
- D. AWS Wavelength
- E. Amazon VPC

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.lastweekinaws.com/blog/what-is-an-edge-location-in-aws-a-simpleexplanation/#:~:text=CloudFront%20is%20the%20most%20commonly,caches%20content%20in%20edge%20locations>

- CloudFront is the most commonly discussed use of edge locations. It's a content delivery network that caches content in edge locations. Content can be served directly from the cache, so it gets to users faster. CloudFront is often used to serve static assets, speed up websites, and stream video.
- Route 53 is purportedly a managed DNS service with name servers spread across Amazon's edge locations. DNS responses come directly from the edge locations, so they're as fast as possible.
- Web Application Firewall and AWS Shield provide a firewall and DDoS protection, respectively. These services filter traffic in edge locations so malicious or unwanted traffic can be discarded as close to source as possible. This, in turn, reduces congestion on Amazon's global network and the public internet.
- AWS Global Accelerator allows you to route requests for key resources through Amazon's global network— even if the request is going halfway round the world. The request is initially routed to the closest edge location and then travels through Amazon's network—often with lower latency and higher throughput than the public internet.

QUESTION 697

When is it beneficial for a company to use a Spot Instance?

- A. When there is flexibility in when an application needs to run.
- B. When there are mission-critical workloads.
- C. When dedicated capacity is needed.
- D. When an instance should not be stopped.

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

The key to understanding spot instances is to look at the way that cloud service providers such as Amazon Web Services (AWS) operate. Cloud service providers invest in hardware resources and then release those resources (often on a per-hour basis) to subscribers. One of the problems with this business model, however, is that at any given time, there are likely to be compute resources that are not being utilized. These resources represent hardware capacity that AWS has paid for but are sitting idle, and not making AWS any money at the moment.

Rather than allowing these computing resources to go to waste, AWS offers them at a substantially discounted rate, with the understanding that if someone needs those resources for running a normal EC2 instance, that instance will take priority over spot instances that are using the hardware resources at a discounted rate. In fact, spot instances will be stopped if the resources are needed elsewhere.

Reference: <https://awsinsider.net/articles/2017/09/25/aws-spot-instances-primer.aspx>

QUESTION 698

A company has existing software licenses that it wants to bring to AWS, but the licensing model requires licensing physical cores.

How can the company meet this requirement in the AWS Cloud?

- A. Launch an Amazon EC2 instance with default tenancy.
- B. Launch an Amazon EC2 instance on a Dedicated Host.
- C. Create an On-Demand Capacity Reservation.
- D. Purchase Dedicated Reserved Instances.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/compute/byol-and-oversubscription/>

QUESTION 699

Users are reporting latency when connecting to a website with a global customer base.

Which AWS service will improve the customer experience by reducing latency?



- A. Amazon CloudFront
- B. AWS Direct Connect
- C. Amazon EC2 Auto Scaling
- D. AWS Transit Gateway

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/getting-started/tutorials/deliver-content-faster/>

QUESTION 700

Which AWS services or features provide high availability and low latency by enabling failover across different AWS Regions?

(Choose two.)

- A. Amazon Route 53
- B. Network Load Balancer
- C. Amazon S3 Transfer Acceleration
- D. AWS Global Accelerator
- E. Application Load Balancer

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/real-time-communication-on-aws/cross-region-dns-based-loadbalancing-and-failover.html>

QUESTION 701

Which AWS service aggregates, organizes, and prioritizes security alerts and findings from multiple AWS services?

- A. Amazon Detective
- B. Amazon Inspector
- C. Amazon Macie
- D. AWS Security Hub

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/security-hub/?aws-security-hub-blogs.sort-by=item.additionalFields.createdDate&awssecurity-hub-blogs.sort-order=desc>

How it works

AWS Security Hub is a cloud security posture management service that performs security best practice checks, aggregates alerts, and enables automated remediation.



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QUESTION 702

A web application running on AWS has been spammed with malicious requests from a recurring set of IP addresses.

Which AWS service can help secure the application and block the malicious traffic?

- A. AWS IAM
- B. Amazon GuardDuty
- C. Amazon Simple Notification Service (Amazon SNS)
- D. AWS WAF

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS WAF is a web application firewall that helps protect web applications from common web exploits that could affect application availability, compromise security, or consume excessive resources. You can use AWS WAF to define customizable web security rules that control which traffic accesses your web applications. If you use AWS Shield Advanced, you can use AWS WAF at no extra cost for those protected resources and can engage the DRT to create WAF rules.

Reference: <https://aws.amazon.com/answers/networking/aws-ddos-attack-mitigation/>

QUESTION 703

An external auditor has requested that a company provide a list of all its IAM users, including the status of users' credentials and access keys.

What is the SIMPLEST way to provide this information?

- A. Create an IAM user account for the auditor, granting the auditor administrator permissions.
- B. Take a screenshot of each user's page in the AWS Management Console, then provide the screenshots to the auditor.
- C. Download the IAM credential report, then provide the report to the auditor.
- D. Download the AWS Trusted Advisor report, then provide the report to the auditor.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_getting-report.html

QUESTION 704

Which feature of the AWS Cloud will support an international company's requirement for low latency to all of its customers?

- A. Fault tolerance
- B. Global reach
- C. Pay-as-you-go pricing
- D. High availability

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 705

A company is moving its development and test environments to AWS to increase agility and reduce cost. Because these are not production workloads and the servers are not fully utilized, occasional unavailability is acceptable. What is the MOST cost-effective Amazon EC2 pricing model that will meet these requirements?

- A. Reserved Instances
- B. On-Demand Instances
- C. Spot Instances
- D. Dedicated Instances

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 706

What is a responsibility of AWS in the shared responsibility model?

- A. Updating the network ACLs to block traffic to vulnerable ports.
- B. Patching operating systems running on Amazon EC2 instances.
- C. Updating the firmware on the underlying EC2 hosts.
- D. Updating the security group rules to block traffic to the vulnerable ports.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>

QUESTION 707

A user who wants to get help with billing and reactivate a suspended account should submit an account and billing request to:

- A. the AWS Support forum
- B. AWS Abuse
- C. an AWS Solutions Architect
- D. AWS Support

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/reactivate-suspended-account/>

QUESTION 708

Which security service automatically recognizes and classifies sensitive data or intellectual property on AWS?

- A. Amazon GuardDuty
- B. Amazon Macie
- C. Amazon Inspector
- D. AWS Shield

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon Macie is a security service that uses machine learning to automatically discover, classify, and protect sensitive data in AWS. Macie recognizes sensitive data such as personally identifiable information (PII) or intellectual property. It provides you with dashboards and alerts that give visibility into how this data is being accessed or moved.

Reference: <https://docs.aws.amazon.com/macie/latest/userguide/what-is-macie.html>

QUESTION 709

Which of the following describes AWS Local Zones?

- A. A cluster of data centers in one geographic location
- B. A site used by Amazon CloudFront to cache frequently accessed content
- C. An extension of an AWS Region to more granular locations
- D. One or more data centers with redundant power and networking

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/about-aws/global-infrastructure/localzones/>

QUESTION 710

An ecommerce company anticipates a huge increase in web traffic for two very popular upcoming shopping holidays. Which AWS service or feature can be configured to dynamically adjust resources to meet this change in demand?

- A. AWS CloudTrail
- B. Amazon EC2 Auto Scaling
- C. Amazon Forecast
- D. AWS Config

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/autoscaling/>

SETUP SCALING QUICKLY	MAKE SMART SCALING DECISIONS
AWS Auto Scaling lets you set target utilization levels for multiple resources in a single, intuitive interface. You can quickly see the average utilization of all of your scalable resources without having to navigate to other consoles. For example, if your application uses Amazon EC2 and Amazon DynamoDB, you can use AWS Auto Scaling to manage resource provisioning for all of the EC2 Auto Scaling groups and database tables in your application.	AWS Auto Scaling lets you build scaling plans that automate how groups of different resources respond to changes in demand. You can optimize availability, costs, or a balance of both. AWS Auto Scaling automatically creates all of the scaling policies and sets targets for you based on your preference. AWS Auto Scaling monitors your application and automatically adds or removes capacity from your resource groups in real-time as demands change.
AUTOMATICALLY MAINTAIN PERFORMANCE	PAY ONLY FOR WHAT YOU NEED
Using AWS Auto Scaling, you maintain optimal application performance and availability, even when workloads are periodic, unpredictable, or continuously changing. AWS Auto Scaling continually monitors your applications to make sure that they are operating at your desired performance levels. When demand spikes, AWS Auto Scaling automatically increases the capacity of constrained resources so you maintain a high quality of service.	AWS Auto Scaling can help you optimize your utilization and cost efficiencies when consuming AWS services so you only pay for the resources you actually need. When demand drops, AWS Auto Scaling will automatically remove any excess resource capacity so you avoid overspending. AWS Auto Scaling is free to use, and allows you to optimize the costs of your AWS environment.

QUESTION 711

What is a characteristic of Amazon S3 cross-region replication?

- A. Both source and destination S3 buckets must have versioning disabled
- B. The source and destination S3 buckets cannot be in different AWS Regions
- C. S3 buckets configured for cross-region replication can be owned by a single AWS account or by different accounts
- D. The source S3 bucket owner must have the source and destination AWS Regions disabled for their account

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AmazonS3/latest/dev/replication.html>

QUESTION 712

Which components are required to build a successful site-to-site VPN connection on AWS? (Choose two.)

- A. Internet gateway
- B. NAT gateway
- C. Customer gateway
- D. Transit gateway
- E. Virtual private gateway

Correct Answer: CD
Section: (none)
Explanation

Explanation/Reference:

QUESTION 713

A company is considering using AWS for a self-hosted database that requires a nightly shutdown for maintenance and costsaving purposes.

Which service should the company use?

- A. Amazon Redshift
- B. Amazon DynamoDB
- C. Amazon Elastic Compute Cloud (Amazon EC2) with Amazon EC2 instance store
- D. Amazon EC2 with Amazon Elastic Block Store (Amazon EBS)

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 714

A company's traffic logs show that IP addresses owned by AWS are being used in an attempt to flood ports on system resources.
To whom should the cloud practitioner report this issue?

- A. AWS Professional Services
- B. AWS Abuse team
- C. AWS Partner Network (APN)
- D. AWS technical account manager (TAM)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>



QUESTION 715

Which of the following are benefits of the AWS Cloud? (Choose two.)

- A. Unlimited uptime
- B. Elasticity
- C. Agility
- D. Colocation
- E. Capital expenses

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The most celebrated benefit of AWS cloud is elasticity since you can expand the services when you experience more traffic.

Agile developments in AWS Cloud through strategies are day by day becoming more established within the enterprises across the world. With so much improvement and call for optimization in the cloud, it is necessary that these strategies get established from the ground up within the organizations. It is highly important as already enterprises have a lot of bequest, politics and hierarchies which act as barriers in their businesses.

Reference: <https://www.botmetric.com/blog/evolution-agile-enterprises-aws-cloud/>

QUESTION 716

Which Amazon EC2 pricing model adjusts based on supply and demand of EC2 instances?

- A. On-Demand Instances
- B. Reserved Instances
- C. Spot Instances
- D. Convertible Reserved Instances

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

In the new model, the Spot prices are more predictable, updated less frequently, and are determined by supply and demand for Amazon EC2 spare capacity, not bid prices.

Reference: <https://aws.amazon.com/blogs/compute/new-amazon-ec2-spot-pricing/>

QUESTION 717

Which AWS service enables users to create copies of resources across AWS Regions?

- A. Amazon ElastiCache
- B. AWS CloudFormation
- C. AWS CloudTrail
- D. AWS Systems Manager

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/aws/use-cloudformation-stacksets-to-provision-resources-across-multiple-awsaccounts-and-regions/>

QUESTION 718

A company is planning to create a new application that will run on Amazon EC2 instances and back up data on Amazon Elastic Block Store (EBS) volumes to Amazon S3. The company wants to estimate the monthly costs of running the application before making a deployment decision.

Which AWS service or feature can be used to estimate these costs?

- A. Cost Explorer
- B. AWS Pricing Calculator
- C. AWS Cost and Usage Report
- D. AWS Budgets

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

To estimate a bill, use the AWS Pricing Calculator. Choose Create estimate, and then choose your planned resources by service. The AWS Pricing Calculator provides an estimated cost per month.

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/estimating-aws-resource-costs/>

QUESTION 719

Which services can be used to deploy applications on AWS? (Choose two.)

- A. AWS Elastic Beanstalk
- B. AWS Config
- C. AWS OpsWorks
- D. AWS Application Discovery Service
- E. Amazon Kinesis

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://d0.awsstatic.com/whitepapers/overview-of-deployment-options-on-aws.pdf>

QUESTION 720

Which of the following inspects AWS environments to find opportunities that can save money for users and also improve system performance?

- A. AWS Cost Explorer
- B. AWS Trusted Advisor
- C. Consolidated billing
- D. Detailed billing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 721

Which of the following are customer responsibilities under the AWS shared responsibility model? (Choose two.)

- A. Physical security of AWS facilities
- B. Configuration of security groups
- C. Encryption of customer data on AWS
- D. Management of AWS Lambda infrastructure
- E. Management of network throughput of each AWS Region

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 722**

Which of the following benefits does the AWS Compliance program provide to AWS customers? (Choose two.)

- A. It verifies that hosted workloads are automatically compliant with the controls of supported compliance frameworks.
- B. AWS is responsible for the maintenance of common compliance framework documentation.
- C. It assures customers that AWS is maintaining physical security and data protection.
- D. It ensures the use of compliance frameworks that are being used by other cloud providers.
- E. It will adopt new compliance frameworks as they become relevant to customer workloads.

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://d0.awsstatic.com/whitepapers/compliance/AWS_Risk_and_Compliance_Whitepaper.pdf

QUESTION 723

Which service stores objects, provides real-time access to those objects, and offers versioning and lifecycle capabilities?

- A. Amazon Glacier
- B. AWS Storage Gateway
- C. Amazon S3
- D. Amazon EBS

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/s3/faqs/>

QUESTION 724

Which of the following services is a MySQL-compatible database that automatically grows storage as needed?

- A. Amazon Elastic Compute Cloud (Amazon EC2)
- B. Amazon Relational Database Service (Amazon RDS) for MySQL
- C. Amazon Lightsail
- D. Amazon Aurora

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Amazon Aurora is a relational database service that combines the speed and availability of high-end commercial databases with the simplicity and cost-effectiveness of open source databases. The MySQL-compatible edition of Aurora delivers up to 5X the throughput of standard MySQL running on the same hardware, and enables existing MySQL applications and tools to run without requiring modification.

Amazon Aurora will automatically grow the size of your database volume as your database storage needs grow. Your volume will grow in increments of 10 GB up to a maximum of 64 TB. You don't need to provision excess storage for your database to handle future growth.

Reference: <https://aws.amazon.com/rds/aurora/mysql-features/>

QUESTION 725

Which AWS service or feature improves network performance by sending traffic through the AWS worldwide network infrastructure?

- A. Route table
- B. AWS Transit Gateway
- C. AWS Global Accelerator
- D. Amazon VPC

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/global-accelerator/?blogs-global-accelerator.sortby=item.additionalFields.createdDate&blogs-global-accelerator.sort-order=desc&aws-global-acceleratorwn.sortby=item.additionalFields.postDateTime&aws-global-accelerator-wn.sort-order=desc>

QUESTION 726

Which AWS service is a highly available and scalable DNS web service?

- A. Amazon VPC
- B. Amazon CloudFront
- C. Amazon Route 53
- D. Amazon Connect

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/route53/>

QUESTION 727

Which of the following services will automatically scale with an expected increase in web traffic?

- A. AWS CodePipeline
- B. Elastic Load Balancing
- C. Amazon EBS
- D. AWS Direct Connect

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/elasticloadbalancing/>

QUESTION 728

A company wants to allow full access to an Amazon S3 bucket for a particular user.

Which element in the S3 bucket policy holds the user details that describe who needs access to the S3 bucket?

- A. Principal
- B. Action
- C. Resource
- D. Statement

Correct Answer: C

Section: (none)

Explanation

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Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AmazonS3/latest/dev/walkthrough1.html>

QUESTION 729

What exclusive benefit is provided to users with Enterprise Support?

- A. Access to a Technical Project Manager
- B. Access to a Technical Account Manager
- C. Access to a Cloud Support Engineer
- D. Access to a Solutions Architect

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/enterprise/>

Technical account management

Designated point of contact

A Technical Account Manager (TAM) is your designated technical point of contact who helps you onboard, provides advocacy and guidance to help plan and build solutions using best practices, coordinates access to subject matter experts, assists with case management, presents insights and recommendations on your AWS spend, workload optimization, and event management, and proactively keeps your AWS environment healthy.

Access to subject matter experts

Cloud Support Engineers, Solutions Architects, and product teams are available to provide guidance and help as needed. The AWS Trust & Safety team assists you when your AWS resources are used to engage in abusive behaviors, such as spam, port scanning, denial-of-service (DoS) attacks, or malware.

QUESTION 730

To optimize costs and resource usage, a company needs to monitor the operational health of its entire system of AWS Cloud resources. Which AWS service will meet these requirements?

- A. AWS Organizations
- B. Amazon CloudWatch
- C. AWS CloudTrail
- D. AWS Config

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/aws-cost-management/aws-cost-optimization/monitor-track-and-analyze/>

QUESTION 731

A customer is using multiple AWS accounts with separate billing.

How can the customer take advantage of volume discounts with minimal impact to the AWS resources?

- A. Create one global AWS account and move all AWS resources to the account.
- B. Sign up for three years of Reserved Instance pricing up front.
- C. Use the consolidated billing feature from AWS Organizations.
- D. Sign up for the AWS Enterprise support plan to get volume discounts.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/answers/account-management/aws-multi-account-billing-strategy/>

QUESTION 732

Which of the following assist in identifying costs by department? (Choose two.)

- A. Using tags on resources
- B. Using multiple AWS accounts
- C. Using an account manager
- D. Using AWS Trusted Advisor
- E. Using Consolidated Billing

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 733

Which of the following are benefits of hosting infrastructure in the AWS Cloud? (Choose two.)

- A. There are no upfront commitments.
- B. AWS manages all security in the cloud.
- C. Users have the ability to provision resources on demand.
- D. Users have access to free and unlimited storage.
- E. Users have control over the physical infrastructure.

Correct Answer: AC
Section: (none)
Explanation

Explanation/Reference:

QUESTION 734

A company is required to store its data close to its primary users.
Which benefit of the AWS Cloud supports this requirement?

- A. Security
- B. High availability
- C. Elasticity
- D. Global footprint

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

QUESTION 735

Which AWS service or feature can enhance network security by blocking requests from a particular network for a web application on AWS? (Choose two.)

- A. AWS WAF
- B. AWS Trusted Advisor
- C. AWS Direct Connect
- D. AWS Organizations
- E. Network ACLs

Correct Answer: AE
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/waf/>

<https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html>

QUESTION 736

A company's application has flexible start and end times.
Which Amazon EC2 pricing model will be the MOST cost-effective?

- A. On-Demand Instances
- B. Spot Instances
- C. Reserved Instances
- D. Dedicated Hosts

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/>

Spot instances

Amazon EC2 Spot instances allow you to request spare Amazon EC2 computing capacity for up to 90% off the On-Demand price. Learn More.

Spot instances are recommended for:

- Applications that have flexible start and end times
- Applications that are only feasible at very low compute prices
- Users with urgent computing needs for large amounts of additional capacity

[See Spot pricing »](#)

QUESTION 737

Which characteristic of the AWS Cloud helps users eliminate underutilized CPU capacity?

- A. Agility
- B. Elasticity
- C. Reliability
- D. Durability

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 738

A company wants to use Amazon Elastic Compute Cloud (Amazon EC2) to deploy a global commercial application. The deployment solution should be built with the highest redundancy and fault tolerance. Based on this situation, the Amazon EC2 instances should be deployed:

- A. in a single Availability Zone in one AWS Region
- B. with multiple Elastic Network Interfaces belonging to different subnets
- C. across multiple Availability Zones in one AWS Region
- D. across multiple Availability Zones in two AWS Regions

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://jayendrapatil.com/aws-high-availability-fault-tolerance-architecture-certification/>

QUESTION 739

Using AWS Identity and Access Management (IAM) to grant access only to the resources needed to perform a task is a concept known as:

- A. restricted access.
- B. as-needed access.
- C. least privilege access.
- D. token access.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

When you create IAM policies, follow the standard security advice of granting 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.

Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>

QUESTION 740

Which of the following are advantages of the AWS Cloud? (Choose two.)

- A. AWS manages the maintenance of the cloud infrastructure
- B. AWS manages the security of applications built on AWS
- C. AWS manages capacity planning for physical servers
- D. AWS manages the development of applications on AWS
- E. AWS manages cost planning for virtual servers

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/data-center/controls/>

QUESTION 741

According to the AWS shared responsibility model, when using Amazon RDS, who is responsible for scheduling and performing backups?

- A. AWS is responsible for both tasks.
- B. The customer is responsible for scheduling and AWS is responsible for performing backups.
- C. The customer is responsible for both tasks.
- D. AWS is responsible for scheduling and the user is responsible for performing backups.

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:****QUESTION 742**

The AWS global infrastructure consists of Regions, Availability Zones, and what else?

- A. VPCs
- B. Data centers
- C. Dark fiber network links
- D. Edge locations

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://www.inqdo.com/aws-explained-global-infrastructure/?lang=en>**QUESTION 743**

How would an AWS customer easily apply common access controls to a large set of users?

- A. Apply an IAM policy to an IAM group.
- B. Apply an IAM policy to an IAM role.
- C. Apply the same IAM policy to all IAM users with access to the same workload.
- D. Apply an IAM policy to an Amazon Cognito user pool.

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Instead of defining permissions for individual IAM users, it's usually more convenient to create groups that relate to job functions (administrators, developers, accounting, etc.). Next, define the relevant permissions for each group. Finally, assign IAM users to those groups. All the users in an IAM group inherit the permissions assigned to the group. That way, you can make changes for everyone in a group in just one place. As people move around in your company, you can simply change what IAM group their IAM user belongs to.

Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>**QUESTION 744**

A company has defined the AWS resources that it needs for a new application. The company needs to estimate the costs of running the application on AWS.

What should the company do to meet this requirement?

- A. Take advantage of AWS on-demand pricing.
- B. Use the AWS Pricing Calculator to generate an approximate dollar amount.
- C. Use Amazon QuickSight to analyze current on-premises spending.
- D. Use Amazon AppStream 2.0 for real-time pricing analytics.

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/estimating-aws-resource-costs/>

Estimate your AWS billing

- If you plan to migrate significant infrastructure to AWS, use the [AWS Sales & Business Development contact form](#), and then choose I need to speak to someone in sales.
- To estimate a bill, use the [AWS Pricing Calculator](#). Choose Create estimate, and then choose your planned resources by service. The AWS Pricing Calculator provides an estimated cost per month. For more information, see [What is AWS Pricing Calculator?](#)
- To forecast your costs, use the [AWS Cost Explorer](#). Use cost allocation tags to divide your resources into groups, and then estimate the costs for each group.

QUESTION 745

A user needs the ability to access as many resources as are needed. The user also needs the ability to scale up and scale down with only a few minutes of notice. Which benefit of the AWS Cloud describes these abilities?

- Reliability
- Economy of scale
- Elasticity
- Pay-as-you-go pricing

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cloud-computing.html>**QUESTION 746**

Which tool is best suited for combining the billing of AWS accounts that were previously independent from one another?

- Detailed billing report
- Consolidated billing
- AWS Cost and Usage report
- Cost allocation report

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>

Consolidated billing has the following benefits:

- **One bill** – You get one bill for multiple accounts.
- **Easy tracking** – You can track the charges across multiple accounts and download the combined cost and usage data.
- **Combined usage** – You can combine the 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. For more information, see [Volume discounts](#).
- **No extra fee** – Consolidated billing is offered at no additional cost.

QUESTION 747

Which AWS service helps users meet contractual and regulatory compliance requirements for data security by using dedicated hardware appliances within the AWS Cloud?

- AWS Secrets Manager
- AWS CloudHSM

- C. AWS Key Management Service (AWS KMS)
- D. AWS Directory Service

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The AWS CloudHSM service helps you meet corporate, contractual, and regulatory compliance requirements for data security by using dedicated Hardware Security Module (HSM) instances within the AWS cloud. AWS and AWS Marketplace partners offer a variety of solutions for protecting sensitive data within the AWS platform, but for some applications and data subject to contractual or regulatory mandates for managing cryptographic keys, additional protection may be necessary.

CloudHSM complements existing data protection solutions and allows you to protect your encryption keys within HSMs that are designed and validated to government standards for secure key management. CloudHSM allows you to securely generate, store, and manage cryptographic keys used for data encryption in a way that keys are accessible only by you.

Reference: <https://aws.amazon.com/cloudhsm/faqs/>

QUESTION 748

Which service should be used to estimate the costs of running a new project on AWS?

- A. AWS TCO Calculator
- B. AWS Simple Monthly Calculator
- C. AWS Cost Explorer API
- D. AWS Budgets

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

To forecast your costs, use the AWS Cost Explorer. Use cost allocation tags to divide your resources into groups, and then estimate the costs for each group.

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/estimating-aws-resource-costs/>

QUESTION 749

Which AWS service can be used to provide an on-demand, cloud-based contact center?

- A. AWS Direct Connect
- B. Amazon Connect
- C. AWS Support Center
- D. AWS Managed Services

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/connect/customers/>

QUESTION 750

Which storage service can be used as a low-cost option for hosting static websites?

- A. Amazon Glacier
- B. Amazon DynamoDB
- C. Amazon Elastic File System (Amazon EFS)
- D. Amazon Simple Storage Service (Amazon S3)

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/getting-started/projects/host-static-website/>**QUESTION 751**

Which service allows a company with multiple AWS accounts to combine its usage to obtain volume discounts?

- A. AWS Server Migration Service
- B. AWS Organizations
- C. AWS Budgets
- D. AWS Trusted Advisor

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Use the consolidated billing feature in AWS Organizations to consolidate billing and payment for multiple AWS accounts or multiple Amazon Internet Services Pvt. Ltd (AISPL) accounts. Every organization in AWS Organizations has a master account that pays the charges of all the member accounts.

Consolidated billing has the following benefits:

One bill – You get one bill for multiple accounts.

Easy tracking – You can track the charges across multiple accounts and download the combined cost and usage data.

Combined usage – You can combine the usage across all accounts in the organization to share the volume pricing discounts and Reserved Instance discounts. This can result in a lower charge for your project, department, or company than with individual standalone accounts. For more information, see Volume Discounts. No extra fee – Consolidated billing is offered at no additional cost.

QUESTION 752

Which Amazon EC2 pricing model offers the MOST significant discount when compared to On-Demand Instances?

- A. Partial Upfront Reserved Instances for a 1-year term
- B. All Upfront Reserved Instances for a 1-year term
- C. All Upfront Reserved Instances for a 3-year term
- D. No Upfront Reserved Instances for a 3-year term

Correct Answer: C**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/ec2/pricing/reserved-instances/>**QUESTION 753**

Which tool can be used to monitor AWS service limits?

- A. AWS Total Cost of Ownership (TCO) Calculator
- B. AWS Trusted Advisor
- C. AWS Personal Health Dashboard
- D. AWS Cost and Usage report

Correct Answer: B**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/mt/monitoring-service-limits-with-trusted-advisor-and-amazon-cloudwatch/>

QUESTION 754

Which design principles are enabled by the AWS Cloud to improve the operation of workloads? (Choose two.)

- A. Minimize upfront design
- B. Loose coupling
- C. Disposable resources
- D. Server design and concurrency
- E. Minimal viable product

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 755

Which AWS services can be used to provide network connectivity between an on-premises network and a VPC? (Choose two.)

- A. Amazon Route 53
- B. AWS Direct Connect
- C. AWS Data Pipeline
- D. AWS VPN
- E. Amazon Connect

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/directconnect/faqs/>

**QUESTION 756**

A company wants to migrate a MySQL database to AWS but does not have the budget for Database Administrators to handle routine tasks including provisioning, patching, and performing backups. Which AWS service will support this use case?

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon DocumentDB
- D. Amazon ElastiCache

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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 compatibility that they need.

Reference: <https://aws.amazon.com/blogs/database/part-1-role-of-the-dba-when-moving-to-amazon-rds-responsibilities/>

QUESTION 757

Which tasks should a user perform if the user suspects that an AWS account has been compromised? (Choose two.)

- A. Remove any multi-factor authentication (MFA) tokens.
- B. Rotate and delete all AWS access keys.
- C. Move resources to a different AWS Region.

- D. Delete AWS CloudTrail resources.
- E. Contact AWS Support.

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

QUESTION 758

A user wants guidance on possible savings when migrating from on-premises to AWS.
Which tool is suitable for this scenario?

- A. AWS Budgets
- B. Cost Explorer
- C. AWS Total Cost of Ownership (TCO) Calculator
- D. AWS Well-Architected Tool

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
The TCO Calculator provides directional guidance on possible realized savings when deploying AWS. This tool is built on an underlying calculation model, that generates a fair assessment of value that a customer may achieve given the data provided by the user.
Reference: <https://aws.amazon.com/tco-calculator/>

QUESTION 759

Which task is the customer's responsibility, according to the AWS shared responsibility model?



- A. Maintain the security of the AWS Cloud.
- B. Configure firewalls and networks.
- C. Patch the operating system of Amazon RDS instances.
- D. Implement physical and environmental controls.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 760

Amazon Route 53 enables users to:

- A. encrypt data in transit
- B. register DNS domain names
- C. generate and manage SSL certificates
- D. establish a dedicated network connection to AWS

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

Reference: <https://docs.aws.amazon.com/Route53/latest/DeveloperGuide>Welcome.html>

Amazon Route 53 is a highly available and scalable Domain Name System (DNS) web service. You can use Route 53 to perform three main functions in any combination: domain registration, DNS routing, and health checking.

If you choose to use Route 53 for all three functions, be sure to follow the order below:

1. Register domain names

Your website needs a name, such as example.com. Route 53 lets you register a name for your website or web application, known as a *domain name*.

- For an overview, see [How domain registration works](#).
- For a procedure, see [Registering a new domain](#).
- For a tutorial that takes you through registering a domain and creating a simple website in an Amazon S3 bucket, see [Getting started with Amazon Route 53](#).

QUESTION 761

AnyCompany recently purchased Example Corp. Both companies use AWS resources, and AnyCompany wants a single aggregated bill. Which option allows AnyCompany to receive a single bill?

- A. Example Corp. must submit a request to its AWS solutions architect or AWS technical account manager to link the accounts and consolidate billing.
- B. AnyCompany must create a new support case in the AWS Support Center requesting that both bills be combined.
- C. Send an invitation to join the organization from AnyCompany's AWS Organizations master account to Example Corp.
- D. Migrate the Example Corp. VPCs, Amazon EC2 instances, and other resources into the AnyCompany AWS account.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/awsaccountbilling-aboutv2.pdf>



QUESTION 762

Treating infrastructure as code in the AWS Cloud allows users to:

- A. automate migration of on-premises hardware to AWS data centers.
- B. let a third party automate an audit of the AWS infrastructure.
- C. turn over application code to AWS so it can run on the AWS infrastructure.
- D. automate the infrastructure provisioning process.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://asperbrothers.com/blog/infrastructure-as-code-aws/>

The benefits of Infrastructure as Code

IaC is reducing Cloud downgrades but also brings much more to the table. The benefits are many:

- Consistency of configuration

The traditional infrastructure deployment process is done manually and thus is vulnerable to discrepancies and human error. It's a common scenario that configurations suffer differences that are hard to identify and debug. IaC approach introduces automation that **completely standardizes the setup process**, reduces chances of incompatibilities, and boosts your systems' overall performance.

QUESTION 763

The financial benefits of using AWS are: (Choose two.)

- A. reduced Total Cost of Ownership (TCO).
- B. increased capital expenditure (capex).
- C. reduced operational expenditure (opex).
- D. deferred payment plans for startups.
- E. business credit lines for startups.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 764

A company needs protection from expanded distributed denial of service (DDoS) attacks on its website and assistance from AWS experts during such events. Which AWS managed service will meet these requirements?

- A. AWS Shield Advanced
- B. AWS Firewall Manager
- C. AWS WAF
- D. Amazon GuardDuty

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/waf/latest/developerguide/ddos-overview.html>

QUESTION 765

Which AWS service will provide a way to generate encryption keys that can be used to encrypt data? (Choose two.)

- A. Amazon Macie
- B. AWS Certificate Manager
- C. AWS Key Management Service (AWS KMS)
- D. AWS Secrets Manager
- E. AWS CloudHSM

Correct Answer: CE

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/crypto/latest/userguide/awscrypt-service-hsm.html>
<https://docs.aws.amazon.com/kms/latest/developerguide/overview.html>

QUESTION 766

A Cloud Practitioner must determine if any security groups in an AWS account have been provisioned to allow unrestricted access for specific ports.
What is the SIMPLEST way to do this?

- A. Review the inbound rules for each security group in the Amazon EC2 management console to check for port 0.0.0.0/0.
- B. Run AWS Trusted Advisor and review the findings.
- C. Open the AWS IAM console and check the inbound rule filters for open access.
- D. In AWS Config, create a custom rule that invokes an AWS Lambda function to review rules for inbound access.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/ec2-security-groups.html>

QUESTION 767

Which of the following can limit Amazon Simple Storage Service (Amazon S3) bucket access to specific users?

- A. A public and private key-pair
- B. Amazon Inspector
- C. AWS Identity and Access Management (IAM) policies
- D. Security Groups



Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

To allow users to perform S3 actions on the bucket from the VPC endpoints or IP addresses, you must explicitly grant those user-level permissions. You can grant user-level permissions on either an AWS Identity and Access Management (IAM) policy or another statement in the bucket policy.

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/block-s3-traffic-vpc-ip/>

QUESTION 768

Which AWS service enables users to securely connect to AWS resources over the public internet?

- A. Amazon VPC peering
- B. AWS Direct Connect
- C. AWS VPN
- D. Amazon Pinpoint

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://d1.awsstatic.com/whitepapers/aws-security-whitepaper.pdf> (36)

QUESTION 769

Which AWS Support plan provides a full set of AWS Trusted Advisor checks?

- A. Business and Developer Support
- B. Business and Basic Support
- C. Enterprise and Developer Support
- D. Enterprise and Business Support

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 770

A user with an AWS Basic Support plan has determined that illegal activities are being run on their AWS resources. What is the recommended method for the user to report the activity to AWS?

- A. Contact the AWS Concierge Support team.
- B. Contact an AWS technical account manager.
- C. Contact the AWS Abuse team.
- D. Contact the AWS Support team.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 771

Which AWS service can send an alert when personally identifiable information (PII) is stored within an Amazon S3 bucket?

- A. Amazon GuardDuty
- B. Amazon Macie
- C. Amazon Inspector
- D. AWS Trusted Advisor

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference:

<https://aws.amazon.com/macie/#:~:text=Macie%20automatically%20detects%20a%20large,addresses%2C%20and%20credit%20card%20numbers>

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.

As organizations manage growing volumes of data, identifying and protecting their sensitive data at scale can become increasingly complex, expensive, and time-consuming. Amazon Macie automates the discovery of sensitive data at scale and lowers the cost of protecting your data. Macie automatically provides an inventory of Amazon S3 buckets including a list of unencrypted buckets, publicly accessible buckets, and buckets shared with AWS accounts outside those you have defined in AWS Organizations. Then, Macie applies machine learning and pattern matching techniques to the buckets you select to identify and alert you to sensitive data, such as personally identifiable information (PII).

QUESTION 772

How should a web application be deployed to ensure high availability in the AWS Cloud?

- A. Deploy multiple instances of the application in multiple Availability Zones.
- B. Deploy multiple instances of the application in a single Availability Zone.
- C. Deploy the application to a compute-optimized Amazon EC2 instance in a single Availability Zone.
- D. Deploy the application in one Amazon EC2 instance in an Auto Scaling group.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.betsol.com/blog/how-to-make-high-availability-web-applications-on-amazon-web-services/>

QUESTION 773

Using AWS Config to record, audit, and evaluate changes to AWS resources to enable traceability is an example of which AWS Well-Architected Framework pillar?

- A. Security
- B. Operational excellence
- C. Performance efficiency
- D. Cost optimization

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://d1.awsstatic.com/whitepapers/architecture/AWS_Well-Architected_Framework.pdf (12)

QUESTION 774

Which of the following BEST describe the AWS pricing model? (Choose two.)

- A. Fixed-term
- B. Pay-as-you-go

- C. Colocation
- D. Planned
- E. Variable cost

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://d0.awsstatic.com/whitepapers/aws_pricing_overview.pdf

QUESTION 775

A user is designing a service to align with the operational excellence pillar of the AWS Well-Architected Framework.
Which design principle should the user follow?

- A. Anticipate failure
- B. Make large-scale changes
- C. Perform manual operations
- D. Create static operational procedures

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>

1. Operational Excellence

The Operational Excellence pillar includes the ability to support development and run workloads effectively, gain insight into their operation, and continuously improve supporting processes and procedures to delivery business value. You can find prescriptive guidance on implementation in the [Operational Excellence Pillar whitepaper](#).



Design Principles

There are five design principles for operational excellence in the cloud:

- Perform operations as code
- Make frequent, small, reversible changes
- Refine operations procedures frequently
- Anticipate failure
- Learn from all operational failures

QUESTION 776

The AWS Total Cost of Ownership (TCO) Calculator is used to:

- A. receive reports that break down AWS Cloud compute costs by duration, resource, or tags
- B. estimate savings when comparing the AWS Cloud to an on-premises environment
- C. estimate a monthly bill for the AWS Cloud resources that will be used
- D. enable billing alerts to monitor actual AWS costs compared to estimated costs

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/tco-calculator/>

QUESTION 777

A company wants to create templates that the company can reuse to deploy multiple AWS resources. Which AWS service or feature can the company use to meet this requirement?

- A. AWS Marketplace
- B. Amazon Machine Image (AMI)
- C. AWS CloudFormation
- D. AWS OpsWorks

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

After you have your stacks and resources set up, you can reuse your templates to replicate your infrastructure in multiple environments.

Reference: <https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/best-practices.html>

QUESTION 778

Which of the following is entirely the responsibility of AWS, according to the AWS shared responsibility model?

- A. Patching of the guest operating system
- B. Security awareness and training
- C. Physical and environmental controls
- D. Development of an IAM password policy

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibilitymodel/#:~:text=AWS%20responsibility%20%E2%80%9CSecurity%20of%20the,that%20run%20AWS%20Cloud%20services.>

QUESTION 779

Which AWS services can be used as infrastructure automation tools? (Choose two.)

- A. AWS CloudFormation
- B. Amazon CloudFront
- C. AWS Batch
- D. AWS OpsWorks
- E. Amazon QuickSight

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://blog.newrelic.com/engineering/best-cloud-infrastructure-automation-tools/>

QUESTION 780

Which AWS service can be used to query stored datasets directly from Amazon S3 using standard SQL?

- A. AWS Glue
- B. AWS Data Pipeline
- C. Amazon CloudSearch



D. Amazon Athena

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Amazon Athena is defined as “an interactive query service that makes it easy to analyse data directly in Amazon Simple Storage Service (Amazon S3) using standard SQL.” So, it’s another SQL query engine for large data sets stored in S3. This is very similar to other SQL query engines, such as Apache Drill. But unlike Apache Drill, Athena is limited to data only from Amazon’s own S3 storage service. However, Athena is able to query a variety of file formats, including, but not limited to CSV, Parquet, JSON, etc.

QUESTION 781

A company wants to expand from one AWS Region into a second AWS Region.
What does the company need to do to start supporting the new Region?

- A. Contact an AWS Account Manager to sign a new contract
- B. Move an Availability Zone to the new Region
- C. Begin deploying resources in the second Region
- D. Download the AWS Management Console for the new Region

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference: <https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-plan-region.html>

QUESTION 782

According to security best practices, how should an Amazon EC2 instance be given access to an Amazon S3 bucket?

- A. Hard code an IAM user’s secret key and access key directly in the application, and upload the file.
- B. Store the IAM user’s secret key and access key in a text file on the EC2 instance, read the keys, then upload the file.
- C. Have the EC2 instance assume a role to obtain the privileges to upload the file.
- D. Modify the S3 bucket policy so that any service can upload to it at any time.

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 783

What does Amazon CloudFront provide?

- A. Automatic scaling for all resources to power an application from a single unified interface
- B. Secure delivery of data, videos, applications, and APIs to users globally with low latency
- C. Ability to directly manage traffic globally through a variety of routing types, including latency-based routing, geo DNS, geoproximity, and weighted round robin
- D. Automatic distribution of incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, IP addresses, and AWS Lambda functions

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Reference:
<https://aws.amazon.com/cloudfront/#:~:text=Amazon%20CloudFront%20is%20a%20fast,within%20a%20developer%2Dfriendly%20environment>

QUESTION 784

A company is planning to launch an ecommerce site in a single AWS Region to a worldwide user base. Which AWS services will allow the company to reach users and provide low latency and high transfer speeds? (Choose two.)

- A. Application Load Balancer
- B. AWS Global Accelerator
- C. AWS Direct Connect
- D. Amazon CloudFront
- E. AWS Lambda

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/cloudfront/faqs/>

QUESTION 785

Which functions can users perform using AWS KMS?

- A. Create and manage AWS access keys for the AWS account root user
- B. Create and manage AWS access keys for an AWS account IAM user
- C. Create and manage keys for encryption and decryption of data
- D. Create and manage keys for multi-factor authentication

Correct Answer: C

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/kms/latest/developerguide/control-access.html>

QUESTION 786

Which of the AWS global infrastructure is used to cache copies of content for faster delivery to users across the globe?

- A. AWS Regions
- B. Availability Zones
- C. Edge locations
- D. Data centers

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

When your web traffic is geo-dispersed, it's not always feasible and certainly not cost effective to replicate your entire infrastructure across the globe. A CDN provides you the ability to utilize its global network of edge locations to deliver a cached copy of web content such as videos, webpages, images and so on to your customers. To reduce response time, the CDN utilizes the nearest edge location to the customer or originating request location in order to reduce the response time.

Throughput is dramatically increased given that the web assets are delivered from cache. For dynamic data, many CDNs can be configured to retrieve data from the origin servers.

Reference: <https://aws.amazon.com/caching/>

QUESTION 787

Which network security features are supported by Amazon VPC? (Choose two.)

- A. Network ACLs

- B. Internet gateways
- C. VPC peering
- D. Security groups
- E. Firewall rules

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Security.html

QUESTION 788

Under the AWS shared responsibility model, the security and patching of the guest operating system is the responsibility of:

- A. AWS Support
- B. the customer
- C. AWS Systems Manager
- D. AWS Config

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 789

A company wants to establish a private network connection between AWS and its corporate network.

Which AWS service or feature will meet this requirement?

- A. Amazon Connect
- B. Amazon Route 53
- C. AWS Direct Connect
- D. VPC peering

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/aws/user-network-to-amazon-vpc-connectivity-for-applications-hosted-on-aws/>

QUESTION 790

Which tasks can be performed by an IAM user that has been granted all of the AWS Identity and Access Management (IAM) permissions that are available? (Choose two.)

- A. Activate IAM access to the AWS Billing and Cost Management console.
- B. Close an AWS account.
- C. Turn on multi-factor authentication (MFA) for non-administrative IAM users.
- D. Change the AWS Support plan.
- E. Delegate access to another AWS account.

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:**QUESTION 791**

What is a user responsible for when running an application in the AWS Cloud?

- A. Managing physical hardware
- B. Updating the underlying hypervisor
- C. Providing a list of users approved for data center access
- D. Managing application software updates

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>**QUESTION 792**

Which aspect of AWS infrastructure enables global deployment of compute and storage?

- A. Availability Zones
- B. Regions
- C. Tags
- D. Resource groups

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://cloudacademy.com/blog/aws-global-infrastructure/>

AWS Global Infrastructure: Availability Zones

Availability Zones and Regions are closely related.

AZs are essentially the physical data centers of AWS. This is where the actual compute, storage, network, and database resources are hosted that we as consumers provision within our Virtual Private Clouds (VPCs). A common misconception is that a single availability zone is equal to a single data center. This is not the case. In fact, it's likely that multiple data centers located close together form a single availability zone.

Each AZ will always have at least one other AZ that is geographically located within the same area, usually a city, linked by highly resilient and very low latency private fiber optic connections. However, each AZ will be isolated from the others using separate power and network connectivity that minimizes impact to other AZs should a single AZ fail.

These low latency links between AZs are used by many AWS services to replicate data for high availability and resilience purposes. For example, when RDS (Relational Database Service) is configured for 'Multi-AZ' deployments, AWS will use synchronous replication between its primary and secondary database and asynchronous replication for any read replicas that have been created.

QUESTION 793

Which of the following is a recommended design principle of the AWS Well-Architected Framework?

- A. Reduce downtime by making infrastructure changes infrequently and in large increments.
- B. Invest the time to configure infrastructure manually.
- C. Learn to improve from operational failures.
- D. Use monolithic application design for centralization.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Learn from all operational failures: Drive improvement through lessons learned from all operational events and failures.

Share what is learned across teams and through the entire organization.

Reference: <https://docs.aws.amazon.com/wellarchitected/latest/framework/wellarchitected-framework.pdf>

QUESTION 794

Which of the following can be used to describe infrastructure as code in the AWS Cloud?

- A. AWS CLI
- B. AWS CloudFormation
- C. AWS CodeDeploy
- D. AWS Amplify

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://containersonaws.com/introduction/infrastructure-as-code/#:~:text=Infrastructure%20as%20code%20is%20the,as%20code%20is%20AWS%20CloudFormation>.

QUESTION 795

What are the benefits of consolidated billing for AWS Cloud services? (Choose two.)

- A. Volume discounts
- B. A minimal additional fee for use
- C. One bill for multiple accounts
- D. Installment payment options
- E. Custom cost and usage budget creation

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>

Consolidated billing has the following benefits:

- **One bill** – You get one bill for multiple accounts.
- **Easy tracking** – You can track the charges across multiple accounts and download the combined cost and usage data.
- **Combined usage** – You can combine the 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. For more information, see [Volume discounts](#).
- **No extra fee** – Consolidated billing is offered at no additional cost.

QUESTION 796

Which AWS Trusted Advisor check is available to all AWS users?

- A. Core checks
- B. All checks
- C. Cost optimization checks
- D. Fault tolerance checks

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.amazonaws.cn/en/support/trustedadvisor/faq/#checks>

QUESTION 797

Which of the following is the responsibility of AWS?

- A. Setting up AWS Identity and Access Management (IAM) users and groups
- B. Physically destroying storage media at end of life
- C. Patching guest operating systems
- D. Configuring security settings on Amazon EC2 instances

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Media storage devices used to store customer data are classified by AWS as Critical and treated accordingly, as high impact, throughout their life-cycles. AWS has exacting standards on how to install, service, and eventually destroy the devices when they are no longer useful. When a storage device has reached the end of its useful life, AWS decommissions media using techniques detailed in NIST 800-88. Media that stored customer data is not removed from AWS control until it has been securely decommissioned. Reference: <https://aws.amazon.com/compliance/data-center/controls/>

QUESTION 798

A company must process a large amount of data from social media accounts by making graphical queries with high throughput.

Which AWS service will help the company design a cloud architecture that will meet these requirements?

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon Neptune
- D. Amazon Redshift

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/neptune/>

QUESTION 799

Which pillar of the AWS Well-Architected Framework includes the AWS shared responsibility model?

- A. Operational excellence
- B. Performance efficiency
- C. Reliability
- D. Security

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>

QUESTION 800

Which AWS service is used to pay AWS bills, and monitor usage and budget costs?

- A. AWS Billing and Cost Management
- B. Consolidated billing
- C. Amazon CloudWatch
- D. Amazon QuickSight

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/billing-what-is.html>

QUESTION 801

Which pillar of the AWS Well-Architected Framework specifies that resources be provisioned in a timely manner and scale as needed to maintain effectiveness as demand changes?

- A. Cost optimization
- B. Security
- C. Operational excellence
- D. Performance efficiency

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/wellarchitected/latest/framework/wellarchitected-framework.pdf> (24)

QUESTION 802

An IT department provisions more servers than are needed to run a workload.

Which cloud architecture design principle supports changing this approach?

- A. Protect data in transit and at rest.
- B. Stop guessing capacity.
- C. Improve through game days.
- D. Annotate documentation.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 803

An Elastic Load Balancer allows the distribution of web traffic across multiple:

- A. AWS Regions.
- B. Availability Zones.
- C. Dedicated Hosts.
- D. Amazon S3 buckets.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/elasticloadbalancing/latest/userguide/what-is-load-balancing.html>

QUESTION 804

What are the advantages of deploying an application with Amazon EC2 instances in multiple Availability Zones? (Choose two.)

- A. Preventing a single point of failure
- B. Reducing the operational costs of the application
- C. Allowing the application to serve cross-region users with low latency
- D. Increasing the availability of the application
- E. Increasing the load of the application

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-increase-availability.html>



QUESTION 805

Who is responsible for patching the guest operating system for Amazon RDS?

- A. The AWS Product team
- B. The customer Database Administrator
- C. Managed partners
- D. AWS Support

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 806

What is an Availability Zone in AWS?

- A. One or more physical data centers
- B. A completely isolated geographic location
- C. One or more edge locations based around the world
- D. A data center location with a single source of power and networking

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://aws.amazon.com/about-aws/global-infrastructure/regions_az/

Availability Zones

An Availability Zone (AZ) is one or more discrete data centers with redundant power, networking, and connectivity in an AWS Region. AZs give customers the ability to operate production applications and databases that are more highly available, fault tolerant, and scalable than would be possible from a single data center. All AZs in an AWS Region are interconnected with high-bandwidth, low-latency networking, over fully redundant, dedicated metro fiber providing high-throughput, low-latency networking between AZs. All traffic between AZs is encrypted. The network performance is sufficient to accomplish synchronous replication between AZs. AZs make partitioning applications for high availability easy. If an application is partitioned across AZs, companies are better isolated and protected from issues such as power outages, lightning strikes, tornadoes, earthquakes, and more. AZs are physically separated by a meaningful distance, many kilometers, from any other AZ, although all are within 100 km (60 miles) of each other.

QUESTION 807

If a user has an AWS account with an Enterprise-level AWS Support plan, who is the primary point of contact for billing or account inquiries?

- A. Solutions architect
- B. AWS Concierge Support team
- C. An AWS Marketplace seller
- D. AWS Partner Network (APN) partner

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:



QUESTION 808

A company must ensure that its endpoint for a database instance remains the same after a single Availability Zone service interruption. The application needs to resume database operations without the need for manual administrative intervention.

How can these requirements be met?

- A. Use multiple Amazon Route 53 routes to the standby database instance endpoint hosted on AWS Storage Gateway.
- B. Configure Amazon RDS Multi-Availability Zone deployments with automatic failover to the standby.
- C. Add multiple Application Load Balancers and deploy the database instance with AWS Elastic Beanstalk.
- D. Deploy a single Network Load Balancer to distribute incoming traffic across multiple Amazon CloudFront origins.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 809

Which AWS service or feature allows a company to visualize, understand, and manage AWS costs and usage over time?

- A. AWS Budgets
- B. AWS Cost Explorer
- C. AWS Organizations
- D. Consolidated billing

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

AWS Cost Explorer has an easy-to-use interface that lets you visualize, understand, and manage your AWS costs and usage over time. Reference: <https://aws.amazon.com/aws-cost-management/aws-cost-explorer/>

QUESTION 810

Which AWS services or features help decrease network latency for a globally dispersed user base? (Choose two.)

- A. Amazon VPC
- B. Elastic Load Balancer
- C. Amazon CloudFront
- D. AWS Direct Connect
- E. AWS Global Accelerator

Correct Answer: BD**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://aws.amazon.com/blogs/startups/optimizing-latency-and-bandwidth-for-aws-traffic/>

The traffic rules allow you to specify how traffic is optimized. You can optimize your traffic based on latency, bandwidth, or cost.

To build and deploy our solution, Datapath.io uses the AWS infrastructure for hosting, backups, deployments, and Direct Connect. The ease of use and integration has made working with AWS great. Specifically, we use the following AWS services:

- Amazon S3
- Amazon EC2
- Elastic Load Balancing
- AWS Direct Connect

The AWS infrastructure provided us with the tools to build our solution and deploy it to our customers. We also took advantage of the AWS Activate program.

In the process of identifying the Internet traffic problem and building the Datapath.io solution, we have learned a few things along the way, which we would like to share.

QUESTION 811

Which scenarios represent the concept of elasticity on AWS? (Choose two.)

- A. Scaling the number of Amazon EC2 instances based on traffic.
- B. Resizing Amazon RDS instances as business needs change.
- C. Automatically directing traffic to less-utilized Amazon EC2 instances.
- D. Using AWS compliance documents to accelerate the compliance process.
- E. Having the ability to create and govern environments using code.

Correct Answer: AB**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://wa.aws.amazon.com/wat.concept.elasticity.en.html>

VCEup

Implement elasticity

- Identify the workloads that have variable load.
- Identify the workload load range. That is, is there enough variability to warrant adding or removing resources?
- Identify the application limitations (sessions, long initialization, licensing, etc.) that may limit elasticity.
- Identify if the increase in demand can be met by automatic scaling, or if it needs to be in place before (for events, launches, etc.).
- Identify applications that can use Amazon Athena or Amazon Aurora Serverless
- Implement elasticity using AWS Auto Scaling or Application Auto Scaling for the aspects of your service that are not elastic by design.
- Test elasticity both up and down, ensuring it will meet requirements for load variance.
- Iterate on implementation and testing until you can meet requirements. You may want to investigate golden Amazon Machine Images, docker containers, etc. to speed launch.

QUESTION 812

Which cloud design principle aligns with AWS Cloud best practices?

- A. Create fixed dependencies among application components
- B. Aggregate services on a single instance
- C. Deploy applications in a single Availability Zone
- D. Distribute the compute load across multiple resources

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Use load balancing for offloading encryption termination (TLS) to improve performance and to manage and route traffic effectively. Distribute traffic across multiple resources or services to allow your workload to take advantage of the elasticity that AWS provides.

Reference: https://d1.awsstatic.com/whitepapers/architecture/AWS_Well-Architected_Framework.pdf

QUESTION 813

Which of the following is a characteristic of the AWS account root user?

- A. The root user is the only user that can be configured with multi-factor authentication (MFA).
- B. The root user is the only user that can access the AWS Management Console.
- C. The root user is the first sign-in identity that is available when an AWS account is created.
- D. The root user has a password that cannot be changed.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/IAM/latest/UserGuide/id_root-user.html

VCEup

AWS account root user

[PDF](#) | [Kindle](#) | [RSS](#)

When you first create an Amazon Web Services (AWS) account, you begin with one identity that has complete access to all AWS services and resources in the account. This identity is called the AWS account *root user*. You can sign in as the root user using the email address and password that you used to create the account.

QUESTION 814

An online retail company has seasonal sales spikes several times a year, primarily around holidays. Demand is lower at other times. The company finds it difficult to predict the increasing infrastructure demand for each season. Which advantages of moving to the AWS Cloud would MOST benefit the company? (Choose two.)

- A. Global footprint
- B. Elasticity
- C. AWS service quotas
- D. AWS shared responsibility model
- E. Pay-as-you-go pricing

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

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

QUESTION 815

Which is the MINIMUM AWS Support plan that provides technical support through phone calls?

- A. Enterprise
- B. Business
- C. Developer
- D. Basic

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/>

QUESTION 816

A company needs to use AWS Identity and Access Management (IAM) to attach an IAM policy to all IAM users in an AWS account. Which solution meets this requirement?

- A. Attach the IAM policy to each IAM user.
- B. Attach the IAM policy to the IAM group containing all the IAM users.
- C. Attach the IAM policy to the IAM role containing all the IAM users.
- D. Apply the IAM policy to the entire AWS account.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



Explanation:
Use IAM roles to delegate access within or between AWS accounts.
Reference: <https://aws.amazon.com/iam/faqs/>

QUESTION 817

Which AWS service allows users to provision resources using a consistent and repeatable process?

- A. AWS Systems Manager
- B. AWS CloudFormation
- C. AWS Batch
- D. AWS Config

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/products/management-and-governance/use-cases/provisioning-and-orchestration/>

QUESTION 818

A user deploys an Amazon RDS DB instance in multiple Availability Zones.
This strategy involves which pillar of the AWS Well-Architected Framework?

- A. Performance efficiency
- B. Reliability
- C. Cost optimization
- D. Security

Correct Answer: B

Section: (none)

Explanation



Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>

QUESTION 819

Which AWS service provides inbound and outbound network ACLs to harden external connectivity to Amazon EC2?

- A. AWS IAM
- B. Amazon Connect
- C. Amazon VPC
- D. Amazon API Gateway

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Security.html

QUESTION 820

Under the AWS shared responsibility model, which of the following is an example of security in the AWS Cloud?

- A. Managing edge locations
- B. Physical security

- C. Firewall configuration
- D. Global infrastructure

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/compliance/shared-responsibility-model/>

QUESTION 821

Which AWS service would identify if unrestricted access to a resource has been allowed by a security group?

- A. AWS Trusted Advisor
- B. Amazon CloudWatch
- C. VPC Flow Logs
- D. AWS CloudTrail

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>

QUESTION 822

What costs are included when comparing AWS Total Cost of Ownership (TCO) with on-premises TCO?

- A. Project management
- B. Antivirus software licensing
- C. Data center security
- D. Software development

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 823

What are the benefits of developing and running a new application in the AWS Cloud compared to on-premises? (Choose two.)

- A. AWS automatically distributes the data globally for higher durability.
- B. AWS will take care of operating the application.
- C. AWS makes it easy to architect for high availability.
- D. AWS can easily accommodate application demand changes.
- E. AWS takes care application security patching.

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 824

Which of the following is an important architectural principle when designing cloud applications?

- A. Store data and backups in the same region.
- B. Design tightly coupled system components.
- C. Avoid multi-threading.
- D. Design for failure.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

There are six design principles for operational excellence in the cloud:

Perform operations as code

Annotate documentation

Make frequent, small, reversible changes

Refine operations procedures frequently

Anticipate failure

Learn from all operational failures

Reference: <https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>

QUESTION 825

Which features and benefits does the AWS Organizations service provide? (Choose two.)

- A. Establishing real-time communications between members of an internal team
- B. Facilitating the use of NoSQL databases
- C. Providing automated security checks
- D. Implementing consolidated billing
- E. Enforcing the governance of AWS accounts



Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/organizations/>

QUESTION 826

The AWS IAM best practice for granting least privilege is to:

- A. apply an IAM policy to an IAM group and limit the size of the group.
- B. require multi-factor authentication (MFA) for all IAM users.
- C. require each IAM user who has different permissions to have multiple passwords.
- D. apply an IAM policy only to IAM users who require it.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://kirkpatrickprice.com/blog/best-practices-for-privilege-management-in-aws/>

QUESTION 827

Which methods can be used to identify AWS costs by departments? (Choose two.)

- A. Enable multi-factor authentication for the AWS account root user.

- B. Create separate accounts for each department.
- C. Use Reserved Instances whenever possible.
- D. Use tags to associate each instance with a particular department.
- E. Pay bills using purchase orders.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 828

A company's solutions architect wants to provision a few Amazon EC2 instances in an existing AWS account. The company requires a cost estimate before the company can approve the request. Which AWS tool should the solutions architect use to produce the cost estimate?

- A. AWS Pricing Calculator
- B. Cost Explorer
- C. AWS Cost and Usage Report
- D. AWS Budgets

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS Cost and Usage Reports tracks your AWS usage and provides estimated charges associated with your account.

Reference: <https://docs.aws.amazon.com/cur/latest/userguide/what-is-cur.html>



QUESTION 829

A user needs to identify underutilized Amazon Elastic Block Store (Amazon EBS) volumes to reduce costs.

Which AWS service or feature will meet this requirement?

- A. AWS CloudTrail
- B. AWS Budgets
- C. AWS Trusted Advisor
- D. AWS Personal Health Dashboard

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-storage-optimization/optimizing-amazon-ebsstorage.html>

QUESTION 830

Which of the following can an AWS customer use to launch a new Amazon Relational Database Service (Amazon RDS) cluster?

- A. AWS Concierge
- B. AWS CloudFormation
- C. Amazon Simple Storage Service (Amazon S3)
- D. Amazon EC2 Auto Scaling
- E. AWS Management Console

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:**QUESTION 831**

Which principles are used to architect applications for reliability on the AWS Cloud? (Choose two.)

- A. Design for automated failure recovery
- B. Use multiple Availability Zones
- C. Manage changes via documented processes
- D. Test for moderate demand to ensure reliability
- E. Backup recovery to an on-premises environment

Correct Answer: AB**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: <https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>

3. Reliability

The Reliability pillar encompasses the ability of a workload to perform its intended function correctly and consistently when it's expected to. This includes the ability to operate and test the workload through its total lifecycle. You can find prescriptive guidance on implementation in the [Reliability Pillar whitepaper](#).

Design Principles

There are five design principles for reliability in the cloud:

- Automatically recover from failure
- Test recovery procedures
- Scale horizontally to increase aggregate workload availability
- Stop guessing capacity
- Manage change in automation

QUESTION 832

Which security credentials are required to run commands by using the AWS Command Line Interface (AWS CLI)?

- A. Access Key ID and Secret Access Key
- B. AWS root user email and password
- C. Amazon Elastic Compute Cloud (Amazon EC2) key pairs
- D. AWS Identity and Access Management (IAM) user name and password

Correct Answer: A**Section:** (none)**Explanation****Explanation/Reference:****Explanation:**

Reference: <https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-quickstart.html>

QUESTION 833

A user needs an automated security assessment report that will identify unintended network access to Amazon EC2 instances and vulnerabilities on those instances. Which AWS service will provide this assessment report?

- A. EC2 security groups
- B. AWS Config
- C. Amazon Macie
- D. Amazon Inspector

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:

Explanation:
Amazon Inspector is an automated security assessment service that helps improve the security and compliance of applications deployed on AWS. Amazon Inspector automatically assesses applications for exposure, vulnerabilities, and deviations from best practices. After performing an assessment, Amazon Inspector produces a detailed list of security findings prioritized by level of severity. These findings can be reviewed directly or as part of detailed assessment reports which are available via the Amazon Inspector console or API. Reference: <https://aws.amazon.com/inspector/>

QUESTION 834

Under the AWS shared responsibility model, what are the customer's responsibilities? (Choose two.)

- A. Physical and environmental security
- B. Physical network devices including firewalls
- C. Storage device decommissioning
- D. Security of data in transit
- E. Data integrity authentication

Correct Answer: DE

Section: (none)
Explanation

Explanation/Reference:

QUESTION 835

Which services are parts of the AWS serverless platform?

- A. Amazon EC2, Amazon S3, Amazon Athena
- B. Amazon Kinesis, Amazon SQS, Amazon EMR
- C. AWS Step Functions, Amazon DynamoDB, Amazon SNS
- D. Amazon Athena, Amazon Cognito, Amazon EC2



Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:
AWS provides a set of fully managed services that you can use to build and run serverless applications. Serverless applications don't require provisioning, maintaining, and administering servers for backend components such as compute, databases, storage, stream processing, message queueing, and more. You also no longer need to worry about ensuring application fault tolerance and availability. Instead, AWS handles all of these capabilities for you. Serverless platform includes: AWS Lambda, Amazon S3, DynamoDB, API gateway, Amazon SNS, AWS step functions, Amazon kinesis and developing tools and services.
Reference: <https://aws.amazon.com/serverless/>

QUESTION 836

Which are benefits of using Amazon RDS over Amazon EC2 when running relational databases on AWS? (Choose two.)

- A. Automated backups
- B. Schema management
- C. Indexing of tables
- D. Software patching
- E. Extract, transform, and load (ETL) management

Correct Answer: AD
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: [**QUESTION 837**](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide>Welcome.html</p></div><div data-bbox=)

Which of the following are characteristics of Amazon S3? (Choose two.)

- A. A global file system
- B. An object store
- C. A local file store
- D. A network file system
- E. A durable storage system

Correct Answer: BE

Section: (none)

Explanation

Explanation/Reference:**QUESTION 838**

A company has an application workload that is stateless by design and can sustain occasional downtime. The application performs massively parallel computations.

Which Amazon EC2 pricing model should the company choose for its application to reduce cost?

- A. On-Demand Instances
- B. Spot Instances
- C. Reserved Instances
- D. Dedicated Instances

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://developer.ibm.com/recipes/tutorials/making-the-most-of-aws-spot-instances-5-best-practices/>

QUESTION 839

Which of the following security-related aspects of running an Amazon Elastic Compute Cloud (Amazon EC2) instance is the responsibility of AWS?

- A. Security of private keys
- B. Hypervisor software updates
- C. Security updates to software running on the instance
- D. Policies controlling instance access

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:**QUESTION 840**

A solutions architect needs to maintain a fleet of Amazon EC2 instances so that any impaired instances are replaced with new ones.

Which AWS service should the solutions architect use?

- A. Amazon Elastic Container Service (Amazon ECS)
- B. Amazon GuardDuty
- C. AWS Shield

D. AWS Auto Scaling

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/ec2/autoscaling/faqs/>

QUESTION 841

A company's newly launched application is gaining in popularity very quickly. To improve customer service, the company wants to set up a phone number to manage the increasing volume of calls received by the company's support staff. Which AWS service should be used to meet this requirement?

- A. Amazon Connect
- B. Amazon CloudFront
- C. Amazon DirectConnect
- D. AWS Trusted Advisor

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/connect/latest/adminguide/contact-center-phone-number.html>

After you create an Amazon Connect instance, you can claim a phone number to use for your contact center. You can use this phone number to place a test call in to your contact center to confirm that it is working correctly. You can also use it in your production environment.

For pricing information about claimed phone number costs, see [Amazon Connect pricing](#).

If you want to keep a phone number you already have, you can port the phone number and use it with Amazon Connect. After a phone number is ported to Amazon Connect, it appears in the list of available phone numbers for you to assign to contact flows.

QUESTION 842

A company recently migrated to AWS and wants to enable intelligent threat protection and continuous monitoring across all of its AWS accounts. Which AWS service should the company use to achieve this goal?

- A. Amazon Macie
- B. Amazon GuardDuty
- C. AWS Shield
- D. Amazon Detective

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/guardduty/>

QUESTION 843

Which AWS service provides the ability to detect inadvertent data leaks of personally identifiable information (PII) and user credential data?

- A. Amazon GuardDuty
- B. Amazon Inspector
- C. Amazon Macie

D. AWS Shield

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/macie/>

QUESTION 844

Which AWS managed services can be used to extend an on-premises data center to the AWS network? (Choose two.)

- A. AWS VPN
- B. NAT gateway
- C. AWS Direct Connect
- D. Amazon Connect
- E. Amazon Route 53

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 845

A company is designing a new application that will store and retrieve millions of photos and videos.

Which AWS service or feature can provide the underlying storage at the LOWEST cost?

- A. Amazon EC2 instance store
- B. Amazon Elastic Block Store (Amazon EBS)
- C. Amazon S3
- D. Amazon Simple Queue Service (Amazon SQS)

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/Storage.html>

Amazon EC2 instance store

Many instances can access storage from disks that are physically attached to the host computer. This disk storage is referred to as *instance store*. Instance store provides temporary block-level storage for instances. The data on an instance store volume persists only during the life of the associated instance; if you stop, hibernate, or terminate an instance, any data on instance store volumes is lost. For more information, see [Amazon EC2 instance store](#).

QUESTION 846

Which disaster recovery option is the LEAST expensive?

- A. Warm standby
- B. Multisite
- C. Backup and restore
- D. Pilot light

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 847

How does the AWS Enterprise Support Concierge team help users?

- A. Supporting application development
- B. Providing architecture guidance
- C. Answering billing and account inquiries
- D. Answering questions regarding technical support cases

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/premiumsupport/plans/enterprise/>

QUESTION 848

Which design principle should be considered when architecting in the AWS Cloud?

- A. Think of servers as non-disposable resources
- B. Use synchronous integration of services
- C. Design loosely coupled components
- D. Implement the least permissive rules for security groups

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.botmetric.com/blog/aws-cloud-architecture-design-principles/>

QUESTION 849

Which AWS services can use AWS WAF to protect against common web exploitations? (Choose two.)

- A. Amazon Route 53
- B. Amazon CloudFront
- C. AWS Transfer Family
- D. AWS Site-to-Site VPN
- E. Amazon API Gateway

Correct Answer: BE
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/waf/>

QUESTION 850

Which AWS Cloud best practice uses the elasticity and agility of cloud computing?



- A. Provision capacity based on past usage and theoretical peaks
- B. Dynamically and predictively scale to meet usage demands
- C. Build the application and infrastructure in a data center that grants physical access
- D. Break apart the application into loosely coupled components

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

In a traditional computing environment, you provision capacity based on an estimate of a theoretical maximum peak. This can result in periods where expensive resources are sitting idle or occasions of insufficient capacity. With cloud computing, you can access as much or as little capacity as you need and dynamically scale to meet actual demand, while only paying for what you use.

QUESTION 851

A company has enabled billing alerts in its AWS account and wants to receive a notification through Amazon Simple Notification Service (Amazon SNS) whenever its monthly bill exceeds a set amount. Which AWS service or tool should the company use to achieve this?

- A. Amazon CloudWatch
- B. Cost Explorer
- C. AWS Cost and Usage Report
- D. AWS Pricing Calculator

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference:

https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/monitor_estimated_charges_with_cloudwatch.html



QUESTION 852

AWS Trusted Advisor provides recommendations on which of the following? (Choose two.)

- A. Cost optimization
- B. Auditing
- C. Serverless architecture
- D. Performance
- E. Scalability

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 853

Which of the following AWS services are serverless? (Choose two.)

- A. AWS Lambda
- B. Amazon Elasticsearch Service
- C. AWS Elastic Beanstalk
- D. Amazon DynamoDB
- E. Amazon Redshift

Correct Answer: AD

Section: (none)

Explanation**Explanation/Reference:****QUESTION 854**

What does it mean to grant least privilege to AWS IAM users?

- A. It is granting permissions to a single user only.
- B. It is granting permissions using AWS IAM policies only.
- C. It is granting AdministratorAccess policy permissions to trustworthy users.
- D. It is granting only the permissions required to perform a given task.

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

When you create IAM policies, follow the standard security advice of granting 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.

Reference: <https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html#grant-least-privilege>

QUESTION 855

A company is running a Microsoft SQL Server instance on premises and is migrating its application to AWS. The company lacks the resources need to refactor the application, but management wants to reduce operational overhead as part of the migration.

Which database service would MOST effectively support these requirements?

- A. Amazon DynamoDB
- B. Amazon Redshift
- C. Microsoft SQL Server on Amazon EC2
- D. Amazon RDS for SQL Server

Correct Answer: D**Section:** (none)**Explanation****Explanation/Reference:****QUESTION 856**

Which services can be used across hybrid AWS Cloud architectures? (Choose two.)

- A. Amazon Route 53
- B. Virtual Private Gateway
- C. Classic Load Balancer
- D. Auto Scaling
- E. Amazon CloudWatch default metrics

Correct Answer: AB**Section:** (none)**Explanation****Explanation/Reference:**

Explanation:

Reference: <https://www.stratoscale.com/blog/cloud/building-hybrid-cloud-environment-using-amazon-cloud/>

QUESTION 857

What is the benefit of elasticity in the AWS Cloud?

- A. Ensure web traffic is automatically spread across multiple AWS Regions.
- B. Minimize storage costs by automatically archiving log data.
- C. Enable AWS to automatically select the most cost-effective services.
- D. Automatically adjust the required compute capacity to maintain consistent performance.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aimconsulting.com/insights/blog/the-elastic-cloud-opportunity/>

QUESTION 858

Which AWS service is a continuous delivery and deployment solution?

- A. AWS AppSync
- B. AWS CodePipeline
- C. AWS Cloud9
- D. AWS CodeCommit

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Continuous delivery, its benefits, and how to implement it using AWS CodePipeline and AWS CodeBuild. Reference:

<https://aws.amazon.com/devops/continuous-delivery/>



QUESTION 859

Which pricing model would result in maximum Amazon Elastic Compute Cloud (Amazon EC2) savings for a database server that must be online for one year?

- A. Spot Instance
- B. On-Demand Instance
- C. Partial Upfront Reserved Instance
- D. No Upfront Reserved Instance

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-reserved-instances.html>

Payment options

The following payment options are available for Reserved Instances:

- **All Upfront:** Full payment is made at the start of the term, with no other costs or additional hourly charges incurred for the remainder of the term, regardless of hours used.
- **Partial Upfront:** A portion of the cost must be paid upfront and the remaining hours in the term are billed at a discounted hourly rate, regardless of whether the Reserved Instance is being used.
- **No Upfront:** You are billed a discounted hourly rate for every hour within the term, regardless of whether the Reserved Instance is being used. No upfront payment is required.

QUESTION 860

Which of the following is an advantage of using AWS?

- A. AWS audits user data.
- B. Data is automatically secure.
- C. There is no guessing on capacity needs.
- D. AWS manages compliance needs.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

AWS manages dozens of compliance programs in its infrastructure. This means that segments of your compliance have already been completed.

Reference: <https://docs.aws.amazon.com/whitepapers/latest/aws-overview/security-and-compliance.html>

QUESTION 861

Which of the following is an AWS-managed compute service?

- A. Amazon SWF
- B. Amazon EC2
- C. AWS Lambda
- D. Amazon Aurora

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 862

Which AWS service can be used to track resource changes and establish compliance?

- A. Amazon CloudWatch

- B. AWS Config
- C. AWS CloudTrail
- D. AWS Trusted Advisor

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://docs.aws.amazon.com/config/latest/developerguide/evaluate-config.html>

QUESTION 863

How can one AWS account use Reserved Instances from another AWS account?

- A. By using Amazon EC2 Dedicated Instances
- B. By using AWS Organizations consolidated billing
- C. By using the AWS Cost Explorer tool
- D. By using AWS Budgets

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

The account that originally purchased the Reserved Instance receives the discount first. If the purchasing account doesn't have any instances that match the terms of the Reserved Instance, the discount for the Reserved Instance is assigned to any matching usage on another account in the organization.

Reference: <https://aws.amazon.com/premiumsupport/knowledge-center/ec2-ri-consolidated-billing/>



QUESTION 864

Which AWS services or features enable users to connect on-premises networks to a VPC? (Choose two.)

- A. AWS VPN
- B. Elastic Load Balancing
- C. AWS Direct Connect
- D. VPC peering
- E. Amazon CloudFront

Correct Answer: AD

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://aws.amazon.com/vpn/faqs/>