

Question #1*Topic 1*

To install a PCI-compliant workload on AWS, which of the following tasks is required?

- 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

Reference:

<https://docs.aws.amazon.com/securityhub/latest/userguide/securityhub-pci-controls.html>**Question #2***Topic 1*

Which security-related duty is AWS accountable for under the AWS shared responsibility model?

- A. Lifecycle management of IAM credentials
- B. Physical security of global infrastructure
- C. Encryption of Amazon EBS volumes
- D. Firewall configuration

Correct Answer: B

Reference:

<https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>**Question #3***Topic 1*

Which cloud architecture design concept is supported by distributing workloads across various Availability Zones?

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

Correct Answer: C**Question #4***Topic 1*

What is one technique to provide unified billing if each department within a firm has its own AWS account?

- 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

Reference:

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

Question #5*Topic 1*

Who is responsible for configuration management under the AWS shared responsibility model?

- 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

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 #6*Topic 1*

Who is the main point of contact for billing or account questions if a user has an AWS account with an Enterprise-level AWS Support plan?

- A. Solutions architect
- B. AWS Concierge Support team
- C. An AWS Marketplace seller
- D. AWS Partner Network (APN) partner

Correct Answer: B**Question #7***Topic 1*

Which compute hosting model should be accounted for in the Total Cost of Ownership (TCO) when undertaking a cost analysis that allows physical isolation of a customer workload?

- A. Dedicated Hosts
- B. Reserved Instances
- C. On-Demand Instances
- D. No Upfront Reserved Instances

Correct Answer: A

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 #8*Topic 1*

Which of the following is a suggestion made by an AWS Trusted Advisor? (Select two.)

- A. Cost optimization
- B. Auditing
- C. Serverless architecture
- D. Performance
- E. Scalability

Correct Answer: AD

Question #9**Topic 1**

Who is accountable for security and compliance under the AWS shared responsibility model?

- 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

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 #10**Topic 1**

Which of the following is a critical design concept for architecting cloud applications?

- A. Use the largest instance possible
- B. Provision capacity for peak load
- C. Use the Scrum development process
- D. Implement elasticity**

Correct Answer: D

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 #11*Topic 1*

Which pillar of the AWS Well-Architected Framework is supported by the design philosophy of performing operations as code?

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

Correct Answer: *B*

Reference:

<https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>**Question #12***Topic 1*

What is the customer's responsibility while using Amazon RDS?

- 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***Question #13***Topic 1*

Which of the following operational controls do users completely inherit from AWS as part of the AWS shared responsibility model?

- A. Security management of data center**
- B. Patch management
- C. Configuration management
- D. User and access management

Correct Answer: *A*

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/>**Question #14***Topic 1*

What is the customer's obligation while using an AWS managed service under the AWS shared responsibility model?

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

Correct Answer: *C*

Reference:

<https://aws.amazon.com/blogs/security/the-aws-shared-responsibility-model-and-gdpr/>**Question #15***Topic 1*

Which AWS service can identify the person who made the API request when an Amazon EC2 instance is terminated?

- A. Amazon CloudWatch
- B. AWS CloudTrail**
- C. AWS X-Ray
- D. AWS Identity and Access Management (IAM)

Correct Answer: *B*

Reference:

<https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-user-guide.html>

Question #16*Topic 1*

All AWS users have access to which AWS Trusted Advisor check?

- A. Core checks
- B. All checks
- C. Cost optimization checks
- D. Fault tolerance checks

Correct Answer: C

Reference:

<https://www.amazonaws.cn/en/support/trustedadvisor/faq/#checks>**Question #17***Topic 1*

Which of the following is an example of security in the AWS Cloud under the AWS shared responsibility model?

- A. Managing edge locations
- B. Physical security
- C. Firewall configuration
- D. Global infrastructure

Correct Answer: B

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/>**Question #18***Topic 1*

Permissions for which of the following are managed by service control policies (SCPs)?

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

Correct Answer: C

Reference:

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_manage_policies_scps.html**Question #19***Topic 1*

Which of the following AWS services should a client utilize to audit the change management of AWS resources?

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

Correct Answer: A

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/>

What is raised when a business deploys web servers across several AWS Regions?

- A. Coupling
- B. Availability**
- C. Security
- D. Durability

Correct Answer: *B*

Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>

Question #21*Topic 1*

Which of the following is a shared control between a client and AWS under the shared responsibility model?

- A. Physical controls
- B. Patch management**
- C. Zone security
- D. Data center auditing

Correct Answer: *B***Question #22***Topic 1*

How should an application be created to function on the AWS Cloud in accordance with best practices?

- A. Use tightly coupled components.
- B. Use loosely coupled components.**
- C. Use infrequently coupled components.
- D. Use frequently coupled components.

Correct Answer: *B*

Reference:

https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf**Question #23***Topic 1*

Which cloud architectural concept is supported by a system that can scale in terms of users, traffic, or data quantity without sacrificing performance?

- A. Think parallel
- B. Implement elasticity**
- C. Decouple your components
- D. Design for failure

Correct Answer: *B*

Reference:

https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf**Question #24***Topic 1*

The following describes an application that spans various Availability Zones:

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

Correct Answer: *A*

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=2ahUKEwiGzf-rtbroAhVkoUKHRhjC-IQ6AEwCnoECAkQAQ#v=onepage&q=aws%20application%20designed%20to%20span%20multiple%20Availability%20Zones%20is%20described%20as%20economy%20of%20scale&f=false

Question #25*Topic 1*

When using AWS Lambda, what is the customer's responsibility?

- A. Operating system configuration
- B. Application management
- C. Platform management
- D. Code encryption

Correct Answer: D

Reference:

<https://aws.amazon.com/lambda/security-overview-of-aws-lambda/>**Question #26***Topic 1*

Which duty is the customer's responsibility while managing AWS Lambda functions under the AWS shared responsibility model?

- 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**Question #27***Topic 1*

Which of the following is not a duty of the client under the AWS shared responsibility model? (Select two.)

- A. Decommissioning of physical storage devices **Most Voted**
- B. Security group and ACL configuration
- C. Patch management of an Amazon RDS instance operating system
- D. Controlling physical access to data centers **Most Voted**
- E. Patch management of an Amazon EC2 instance operating system

Correct Answer: BE

Reference:

<https://www.whizlabs.com/blog/aws-security-shared-responsibility/>**Question #28***Topic 1*

Which service or functionality does AWS Enterprise Support provide that other AWS Support subscriptions do not?

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

Correct Answer: C

Reference:

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

Question #29*Topic 1*

What attributes of an AWS account can AWS Trusted Advisor monitor and advise on? (Select two.)

- A. Compliance with security best practices
- B. Application performance**
- C. Network utilization
- D. Cost optimization
- E. Compliance status

Correct Answer: BD

Reference:

<https://aws.amazon.com/blogs/startups/optimizing-latency-and-bandwidth-for-aws-traffic/>

Question #30*Topic 1*

Which feature enables Amazon EC2 instances to be more elastic in response to changing workload demand?

- A. Virtualization Management
- B. Hardware management
- C. Encryption management**
- D. Facilities management
- E. Firewall management

Correct Answer: CE

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 #31*Topic 1*

What is the unique advantage that Enterprise Support customers receive?

- 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*

Reference:

<https://aws.amazon.com/premiumsupport/plans/enterprise/>**Question #32***Topic 1*

What are the advantages of AWS Cloud elasticity?

- 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*

Reference:

<https://aimconsulting.com/insights/blog/the-elastic-cloud-opportunity/>**Question #33***Topic 1*

Which cost components should be addressed when developing a cloud Total Cost of Ownership (TCO) model for AWS workloads? (Select 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*

Reference:

<https://aws.amazon.com/blogs/aws/the-new-aws-tco-calculator/>**Question #34***Topic 1*

Which of the following are capabilities of the AWS Cost Management tools? (Select 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*

Question #35*Topic 1*

How should an Amazon EC2 instance be granted access to an Amazon S3 bucket in accordance with security best practices?

- 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**Question #36***Topic 1*

Which of the following price options would result in the highest reduction after making an Amazon EC2 Dedicated Host reservation?

- A. No upfront payment
- B. Hourly on-demand payment
- C. Partial upfront payment
- D. All upfront payment

Correct Answer: D

Reference:

<https://aws.amazon.com/ec2/pricing/reserved-instances/pricing/>**Question #37***Topic 1*

Which AWS services and/or features increase availability and mitigate the effect of failures while constructing a typical three-tier web application? (Select 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

Reference:

https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf**Question #38***Topic 1*

Which of the following IT responsibilities may AWS relieve a company's IT team of? (Select 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

Question #39

Topic 1

Which of the following is included in the AWS Trusted Advisor checks? (Select 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

Reference:

<https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>

Question #40

Topic 1

What is AWS accountable for under the AWS shared responsibility model?

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

Correct Answer: D

Reference:

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

Question #41*Topic 1*

Which of the following tasks may be used to improve Amazon EC2 costs? (Select 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**Question #42***Topic 1*

Which of the following is a customer duty under the AWS shared responsibility model?

- 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

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/>**Question #43***Topic 1*

A firm wishes to develop a new line of business application.

Which design concepts should be applied in accordance with the AWS Well-Architected Framework? (Select 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**Question #44***Topic 1*

Which of the following is the customer's obligation under the AWS shared responsibility model?

- 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

Question #45*Topic 1*

Which scenarios should a user report to the AWS Abuse team? (Select 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

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>**Question #46***Topic 1*

Which AWS serverless platform services are included?

- 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

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 #47***Topic 1*

According to the AWS shared responsibility model, which of the following is the customer's obligation?

- A. Patching underlying infrastructure
- B. Physical security
- C. Patching Amazon EC2 instances
- D. Patching network infrastructure

Correct Answer: C

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/>**Topic 1 - Single Topic****Question #48***Topic 1*

Which of the following is the customer's obligation under the shared responsibility model?

- 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

Reference:

<https://www.whizlabs.com/blog/aws-security-shared-responsibility/>

Question #49

Topic 1

What is the AWS Cloud's value proposition?

- 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*

Reference:

<https://d1.awsstatic.com/whitepapers/aws-whitepaper-business-value-of-aws.pdf>

Question #50

Topic 1

Which of the following describes elasticity in the AWS Cloud? (Select two.)

- A. How quickly an Amazon EC2 instance can be restarted
- B. The ability to rightscale 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*

Reference:

<https://blog.turbonomic.com/blog/on-technology/cloud-elasticity-vs-cloud-scalability>

Question #51*Topic 1*

How do Amazon's tremendous economies of scale help customers?

- 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**Question #52***Topic 1*

After studying the AWS Cost and Usage report in the AWS Management Console, a Cloud Practitioner detects a billing problem.

Which course of action should be done to rectify 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**Question #53***Topic 1*

Which of the following are customer duties under the AWS shared responsibility model? (Select 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

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/>**Question #54***Topic 1*

Which of the following tasks is the AWS customer's duty under the shared responsibility model? (Select 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

Question #55*Topic 1*

Before transferring an environment to the AWS Cloud, a cloud practitioner must receive AWS compliance reports.

How are these reports produced?

- 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

Question #56*Topic 1*

Which change management actions, according to the AWS Well-Architected Framework, should be followed to ensure AWS Cloud reliability? (Select 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

Question #57*Topic 1*

Which of the following actions is the customer's responsibility under the AWS shared responsibility model? (Select 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

Reference:

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

Question #58*Topic 1*

What may be associated to an Amazon EC2 instance through AWS Identity and Access Management (IAM) to initiate service requests?

- A. Group
- B. Role
- C. Policy
- D. Access key

Correct Answer: B

Reference:

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

Question #59

Topic 1

Which of the following is a duty of AWS under the AWS shared responsibility model?

- 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

Reference:

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

Question #60

Topic 1

A copy of the AWS SOC 2 report is required during a compliance review by one of the auditors.

Which service should this request be sent through?

- A. AWS Personal Health Dashboard
- B. AWS Trusted Advisor
- C. AWS Artifact
- D. Amazon S3

Question #61**Topic 1**

For 3 hours, 5 minutes, and 6 seconds, a client operates an Amazon Linux EC2 instance on-demand.

How long will the consumer be charged?

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

Correct Answer: B

Reference:

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

Question #62**Topic 1**

According to the AWS shared responsibility model, which of the following is exclusively the responsibility of AWS?

- 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

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/#:~:text=AWS%20responsibility%20%E2%80%9CSecurity%20of%20the,that%20run%20AWS%20Cloud%20services>

Question #63**Topic 1**

What can users do using AWS Marketplace? (Select 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

Reference:

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

Question #64**Topic 1**

What are the possible uses for AWS edge locations? (Select 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

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 #65**Topic 1**

Amazon Elastic Container Service (Amazon ECS) and Amazon DynamoDB are used by a firm to execute its mission-critical web application. Multiple times during the day, the workload jumps to up to ten times the regular level.

Which AWS Cloud feature helps the business to adapt to these demand changes?

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

Correct Answer: C

Reference:

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

Question #66**Topic 1**

Which of the following tasks is the customer's duty under the shared responsibility model? (Select 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

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 #67**Topic 1**

Which of the following are AWS obligations, according to the AWS shared responsibility model? (Select 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

Question #68**Topic 1**

What charges are included in the comparison of AWS vs on-premises Total Cost of Ownership (TCO)?

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

Correct Answer: A

Reference:

<https://www.awstcoccalculator.com/Output/Load/f85bbf7e131446643911859504>

Which AWS services is natively supported by AWS Snowball Edge?

- A. AWS Server Migration Service (AWS SMS)
- B. Amazon Aurora
- C. AWS Trusted Advisor
- D. Amazon EC2

Correct Answer: D

Reference:

<https://aws.amazon.com/blogs/storage/building-a-linux-edge-computing-solution-with-aws-snowball-edge-and-amazon-ec2/>

Which AWS shared responsibility controls are shared? (Select 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

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/#:~:text=Shared%20Controls%20%20%E2%80%9CControls%20which%20apply;their%20use%20of%20AWS%20services>

Question #71*Topic 1*

After a single Availability Zone service disruption, a corporation must guarantee that the endpoint for a database instance stays the same. The program must continue database operations without human intervention from an administrator.

How are these stipulations to 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***Question #72***Topic 1*

Which costs must be addressed when comparing AWS Cloud vs on-premises Total Cost of Ownership? (Select two.)

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

Correct Answer: *CD*

Reference:

<https://aws.amazon.com/blogs/aws/the-new-aws-tco-calculator/>**Question #73***Topic 1*

Which costs must be addressed when comparing AWS Cloud vs on-premises Total Cost of Ownership? (Select 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***Question #74***Topic 1*

Which AWS products anticipate future AWS expenses automatically?

- A. AWS Support Center
- B. AWS Total Cost of Ownership (TCO) Calculator
- C. AWS Simple Monthly Calculator
- D. Cost Explorer

Correct Answer: *D*

Reference:

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

Question #75*Topic 1*

Which functionality may be utilized to prevent inadvertent overwrites or deletions of Amazon S3 buckets?

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

Correct Answer: *B*

Reference:

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

Question #76*Topic 1*

Amazon DynamoDB is used by a business in its AWS Cloud architecture.

Which of the following is a duty of the organization, according to the AWS shared responsibility model? (Select 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***Question #77***Topic 1*

Which of the following areas is the customer's duty under the shared responsibility model? (Select 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*

Reference:

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

Question #78*Topic 1*

Which AWS service or functionality is utilized by distributed applications to send text and email messages?

- 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*

Reference:

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

Question #79*Topic 1*

To achieve high availability, how many Availability Zones should computing resources be provided across?

- 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*

Question #80*Topic 1*

To boost availability, a user intends to create two more Amazon EC2 instances.

What should the user do?

- 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*

Question #81*Topic 1*

How can customers minimize the amount of time they spend patching their operating systems by migrating to the AWS Cloud? (Select 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**Question #82***Topic 1*

What are the customer's duties under the AWS shared responsibility model? (Select 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**Question #83***Topic 1*

In the case of an environmental disruption, a company needs to make sure its infrastructure is structured for fault tolerance and business continuity.
Which parts of the AWS architecture should the organization replicate?

- A. Edge locations
- B. Availability Zones
- C. Regions
- D. Amazon Route 53

Correct Answer: B

Reference:

https://d36cz9buwru1t.cloudfront.net/AWS_Building_Fault_Tolerant_Applications.pdf
(3)

Question #84*Topic 1*

According to which AWS cloud design guideline, systems should minimize their interdependence?

- A. Scalability
- B. Services, not servers
- C. Removing single points of failure
- D. Loose coupling

Correct Answer: D

Question #85*Topic 1*

Which tasks need the root user credentials for an AWS account? (Select 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

Reference:

<https://docs.aws.amazon.com/general/latest/gr/root-vs-iam.html>**Question #86***Topic 1*

An administrator must fast install and begin utilizing a popular IT product.

What resources are available to the administrator?

- A. AWS Well-Architected Framework documentation
- B. Amazon CloudFront
- C. AWS CodeCommit
- D. AWS Quick Start reference deployments

Correct Answer: D

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.sort-order=desc>**Question #87***Topic 1*

Which solution enables users in various AWS Regions to have the FASTEST application response times for frequently requested data?

- 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

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 #88***Topic 1*

A corporation anticipates a brief increase in internet traffic for their application. The program cannot be interrupted during the traffic spike. In addition, the organization must reduce costs while increasing flexibility.

To achieve these needs, which Amazon EC2 instance type should the organization use?

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

Correct Answer: B

Reference:

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

Question #89*Topic 1*

An Amazon RDS database instance is deployed across several Availability Zones.

Which pillar of the AWS Well-Architected Framework is included in this strategy?

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

Correct Answer: B

Reference:

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

Question #90*Topic 1*

Amazon EC2, an Elastic Load Balancer, and Amazon RDS are all components of an architectural design.

What is the BEST method for estimating the monthly cost of 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

Reference:

<https://docs.aws.amazon.com/pricing-calculator/latest/userguide/aws-pc.pdf>

Question #91*Topic 1*

On Amazon EC2, a business hosts a web application in a Docker container.

Which of the following duties is AWS in charge of?

- 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

Reference:

<https://aws.amazon.com/getting-started/tutorials/deploy-docker-containers/>**Question #92***Topic 1*

What are the AWS Cloud's advantages? (Select 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

Reference:

<https://data-flair.training/blogs/aws-advantages/>**Question #93***Topic 1*

An Elastic Load Balancer, numerous Amazon EC2 instances, and Amazon RDS are used to run a web application on AWS.

Which security measures are AWS's responsibility? (Select 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**Question #94***Topic 1*

Which AWS service or feature facilitates the purchase and deployment of third-party software by providing an online, managed software catalog?

- A. AWS Support
- B. AWS Marketplace
- C. Amazon EC2 private Amazon Machine Images (AMIs)
- D. AWS reseller programs

Correct Answer: B

AWS Marketplace is a curated digital catalog that makes it easy for customers to find, buy, deploy, and manage the third-party software.

Reference:

<https://aws.amazon.com/marketplace/campaigns/software-procurement>

Question #95

Topic 1

A business may be required to operate its workload exclusively in its on-premises data center due to performance and regulatory limitations.

Which Amazon Web Services (AWS) services or resources should the business utilize? (Select two.)

- A. Amazon Pinpoint
- B. Amazon WorkLink
- C. AWS Outposts
- D. AWS Snowball Edge
- E. AWS AppSync

Correct Answer: BC

Reference:

<https://aws.amazon.com/worklink/>
<https://aws.amazon.com/outposts/>

Question #96

Topic 1

For security reasons, a business demands an isolated environment inside AWS.

Which course of action is necessary to achieve 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

Reference:

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

Question #97

Topic 1

When utilizing the AWS Command Line Interface (AWS CLI), which of the following Identity and Access Management (IAM) entities is connected with an access key ID and secret access key?

- A. IAM group
- B. IAM user
- C. IAM role
- D. IAM policy

Correct Answer: B

Reference:

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

Question #98

Topic 1

Which component of the AWS architecture permits global computing and storage deployment?

- A. Availability Zones
- B. Regions
- C. Tags
- D. Resource groups

Correct Answer: A

Reference:

<https://cloudacademy.com/blog/aws-global-infrastructure/>

Question #99

Topic 1

What is AWS's sole obligation under the AWS shared responsibility model?

- A. Application security
- B. Edge location management**
- C. Patch management
- D. Client-side data

Correct Answer: B

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 #100

Topic 1

Which of the following is a design concept associated with dependability in the AWS Well-Architected Framework?

- 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

Reference:

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

Question #101*Topic 1*

Which activity is entirely the user's responsibility while executing 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***Question #102***Topic 1*

Which statement best describes the AWS Cloud's agility?

- 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*

Reference:

<https://blog.clairvoyantsoft.com/true-economics-of-cloud-computing-part-1-what-it-really-means-to-be-agile-1ed14a1696a5>

Question #103*Topic 1*

Which AWS product or service enables businesses to monitor and classify their expenditure at a precise level?

- A. Cost allocation tags
- B. Consolidated billing
- C. AWS Budgets
- D. AWS Marketplace

Correct Answer: *C*

Reference:

<https://aws.amazon.com/blogs/startups/how-to-set-aws-budget-when-paying-with-aws-credits/>

Question #104*Topic 1*

Which AWS service is responsible for monitoring the health of your applications automatically?

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

Correct Answer: *B*

Reference:

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

Question #105*Topic 1*

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

- A. Project management
- B. Antivirus software licensing
- C. Data center security
- D. Software development

Correct Answer: *C*

Question #106*Topic 1*

Which design concept is fulfilled by adhering to the AWS Well-Architected Framework's dependability pillar?

- A. Vertical scaling
- B. Manual failure recovery
- C. Testing recovery procedures
- D. Changing infrastructure manually

Correct Answer: C

Reference:

<https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>**Question #107***Topic 1*

Which AWS service or functionality can assist a business in determining if it has publicly accessible Amazon S3 buckets?

- A. AWS Service Health Dashboard
- B. Amazon CloudWatch Logs
- C. AWS Trusted Advisor
- D. AWS Service Catalog

Correct Answer: C

Reference:

https://d1.awsstatic.com/product-marketing/S3/Amazon_S3_Security_eBook_2020.pdf**Question #108***Topic 1*

Seasonal sales surges occur many times a year for an online retailer, most notably during the holidays. At other times of year, demand is lower. The corporation has difficulty forecasting the seasonal increase in infrastructure demand.

Which benefits of migrating to the AWS Cloud would be the most beneficial to the business? (Select two.)

- A. Global footprint
- B. Elasticity
- C. AWS service quotas
- D. AWS shared responsibility model
- E. Pay-as-you-go pricing

Correct Answer: BE

Reference:

<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cloud-computing.html>**Question #109***Topic 1*

Which concepts of AWS Cloud architecture may assist boost reliability? (Select 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

Reference:

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

Which AWS service enables customers to view AWS compliance control reports on-demand and self-service?

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

Correct Answer: *D*

Reference:

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

Question #111*Topic 1*

What may aid in the evaluation of a cloud-based application? (Select 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***Question #112***Topic 1*

Which AWS service enables expense control across numerous AWS accounts effectively?

- A. AWS Organizations
- B. AWS Trusted Advisor
- C. AWS Direct Connect
- D. Amazon Connect

Correct Answer: *A*

Reference:

<https://aws.amazon.com/blogs/aws/aws-organizations-policy-based-management-for-multiple-aws-accounts/>

Question #113*Topic 1*

A company's on-premises servers and the AWS Cloud need a dedicated network connection.

Which Amazon Web Services (AWS) service should be used?

- A. AWS VPN
- B. AWS Direct Connect
- C. Amazon API Gateway
- D. Amazon Connect

Correct Answer: *B*

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 #114*Topic 1*

On-premises resources have been underused by a user.

Which AWS Cloud idea is optimal for resolving this issue?

- A. High availability
- B. Elasticity
- C. Security
- D. Loose coupling

Correct Answer: *B*

Reference:

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

Question #115*Topic 1*

Which of the following advantages does Amazon Relational Database Service (Amazon RDS) provide over conventional 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***Question #116***Topic 1*

A cloud practitioner has a seldom run data analysis job that can be stopped without causing damage.

Which Amazon EC2 purchase option should be utilized to maximize cost savings?

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

Correct Answer: *C*

Reference:

<https://aws.amazon.com/ec2/pricing/>**Question #117***Topic 1*

What are the advantages of AWS Cloud service billing consolidation? (Select 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*

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>**Question #118***Topic 1*

Which Amazon EC2 instance type is necessary when a user wishes to use their current per-socket, per-core, or per-virtual machine software licenses on a Microsoft Windows server operating on AWS?

- A. Spot Instances
- B. Dedicated Instances
- C. Dedicated Hosts**
- D. Reserved Instances

Correct Answer: *C*

Reference:

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

Question #119*Topic 1*

When users connect to a website with a worldwide consumer base, they report experiencing delay.

Which Amazon Web Services (AWS) offering will enhance the user experience by lowering latency?

- A. Amazon CloudFront
- B. AWS Direct Connect
- C. Amazon EC2 Auto Scaling
- D. AWS Transit Gateway

Correct Answer: A

Reference:

<https://aws.amazon.com/getting-started/tutorials/deliver-content-faster/>**Question #120***Topic 1*

Which capabilities or services are available for monitoring an AWS account's charges and expenses? (Select 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

Reference:

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

Question #121*Topic 1*

Which service enables users to store data in the Amazon Web Services cloud?

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

Correct Answer: *B*

Reference:

<https://aws.amazon.com/redshift/>**Question #122***Topic 1*

A corporation wishes to minimize the physical footprint of the computing resources used by developers to execute programs.

Which service would enable serverless architectures to address this need?

- A. Amazon Elastic Compute Cloud (Amazon EC2)
- B. AWS Lambda**
- C. Amazon DynamoDB
- D. AWS CodeCommit

Correct Answer: *B*

AWS Lambda is an integral part of coding on AWS. It reduces physical compute footprint by utilizing aws cloud services to run code.

Question #123*Topic 1*

Numerous AWS Cloud Regions are an illustration of:

- A. agility.
- B. global infrastructure.**
- C. elasticity.
- D. pay-as-you-go pricing.

Correct Answer: *B***Question #124***Topic 1*

How can a client anticipate future expenses associated with the operation of 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*

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 #125*Topic 1*

Which AWS service enables conventional SQL queries against stored datasets straight from Amazon S3?

- A. AWS Glue
- B. AWS Data Pipeline
- C. Amazon CloudSearch
- D. Amazon Athena

Correct Answer: D

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 #126*Topic 1*

The term "fault tolerance" relates to the following:

- 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**Question #127***Topic 1*

What is AWS Storage Gateway's purpose?

- A. It ensures on-premises data storage is 99.99999999% 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

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 #128*Topic 1*

A startup is developing a new application that must be launched immediately. In the near future, the application criteria may need to be changed.

Which of the following is an AWS Cloud feature that would fulfill this particular requirement?

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

Correct Answer: D

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 #129*Topic 1*

Which AWS service must be enabled in order for the AWS Management Console to monitor all user account changes?

- A. AWS CloudTrail
- B. Amazon Simple Notification Service (Amazon SNS)
- C. VPC Flow Logs
- D. AWS CloudHSM

Correct Answer: A

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 #130*Topic 1*

A business needs to guarantee that users of the AWS Management Console adhere to password complexity guidelines.

How can a business customize the difficulty of its passwords?

- 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

Reference:

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_passwords_account-policy.html

Question #131*Topic 1*

Which AWS service would determine if a security group has granted unlimited access to a resource?

- A. AWS Trusted Advisor
- B. Amazon CloudWatch
- C. VPC Flow Logs
- D. AWS CloudTrail

Correct Answer: A

Reference:

<https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>**Question #132***Topic 1*

According to the AWS shared responsibility model, what is one of the customer's responsibilities?

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

Correct Answer: C

Reference:

<https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>**Question #133***Topic 1*

Which features are available to users while use 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

Reference:

<https://docs.aws.amazon.com/kms/latest/developerguide/control-access.html>**Question #134***Topic 1*

On Amazon EC2 instances, a business has installed various relational databases. Each month, the database software manufacturer publishes new security updates for databases that must be deployed.

Which method is the MOST EFFECTIVE for applying 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

Reference:

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

Question #135**Topic 1**

A business is releasing a new application on AWS. The application will be hosted on an Amazon Elastic Compute Cloud (EC2) instance. Additional EC2 instances will be required as the demand grows.

Which AWS service or technology can the business utilize to deploy the required number of EC2 instances?

- A. Elastic Load Balancing
- B. Amazon EC2 Auto Scaling
- C. AWS App2Container (A2C)
- D. AWS Systems Manager

Correct Answer: A

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 #136**Topic 1**

What does it mean to provide AWS IAM users the fewest possible privileges?

- 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

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 #137**Topic 1**

When building an Amazon Relational Database Service (Amazon RDS) instance in Multiple Availability Zone mode, which architectural concept is followed?

- A. Implement loose coupling.
- B. Design for failure.
- C. Automate everything that can be automated.
- D. Use services, not servers.

Correct Answer: B

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 #138**Topic 1**

Which of the following statements concerning AWS's worldwide infrastructure is true?

- 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

Reference:

<https://digitalcloud.training/certification-training/aws-certified-cloud-practitioner/aws-global-infrastructure/>

What is a user's responsibility while using the AWS Cloud to execute an application?

- 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

Reference:

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

Which of the following may be used to restrict certain users' access to Amazon Simple Storage Service (Amazon S3) buckets?

- A. A public and private key-pair
- B. Amazon Inspector
- C. AWS Identity and Access Management (IAM) policies
- D. Security Groups

Correct Answer: C

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 #141*Topic 1*

Which AWS service enables a business to identify and reroute customers to other servers in the event of a website server outage?

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

Correct Answer: C

Reference:

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

Question #142*Topic 1*

A organization with an AWS Support plan for developers established an Amazon RDS database but is unable to connect to it.

To get this degree of help, who should the developer contact?

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

Correct Answer: A**Question #143***Topic 1*

A corporation is required by law to track and assess configuration changes to AWS resources, as well as to conduct corrective steps.

Which Amazon Web Services (AWS) service should the business use?

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

Correct Answer: A

Reference:

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

Question #144*Topic 1*

Which AWS service should be utilized to store data backups for an extended period of time at a reasonable cost?

- A. Amazon RDS
- B. Amazon Glacier
- C. AWS Snowball
- D. AWS EBS

Correct Answer: B

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 #145*Topic 1*

What does the AWS Cloud bring clients in terms of increased execution speed and agility?
(Select 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

Reference:

<https://d1.awsstatic.com/whitepapers/aws-overview.pdf>**Question #146***Topic 1*

Which AWS shared responsibility model duties are the customer's responsibility? (Select 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

Reference:

<https://cloudacademy.com/blog/aws-shared-responsibility-model-security/>**Question #147***Topic 1*

A retailer wishes to supply just the resources required to meet current demand.

Which cloud advantage is the organization attempting to accomplish with this objective?

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

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/six-advantages-of-cloud-computing.html>**Question #148***Topic 1*

What storage capabilities does Amazon S3 Intelligent-Tiering provide?

- 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

Reference:

<https://aws.amazon.com/about-aws/whats-new/2018/11/s3-intelligent-tiering/>

Question #149**Topic 1**

A business wishes to transfer its apps to an AWS VPC. These apps will need access to resources located on-premises.

Which combination of activities will allow the business to achieve this objective? (Select 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

Reference:

<https://aws.amazon.com/blogs/apn/amazon-vpc-for-on-premises-network-engineers-part-one/>

Question #150**Topic 1**

A corporation want to remove the necessity for pre-deployment estimation of infrastructure capacity. Additionally, the corporation want to spend its money on cloud resources only when the resources are used.

Which AWS Cloud feature best meets the needs of your business?

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

Correct Answer: A

Reference:

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

Question #151*Topic 1*

A business must keep its data near to its core consumers.

Which AWS Cloud advantage satisfies this requirement?

- A. Security
- B. High availability
- C. Elasticity
- D. Global footprint

Correct Answer: D**Question #152***Topic 1*

A company's managed IAM policy does not allow users the rights essential to do needed activities.

How is this situation to 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**Question #153***Topic 1*

Which scenarios warrant the utilization of Amazon EC2 Spot Instances?

- 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

Reference:

<https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-leveraging-ec2-spot-instances/spot-instance-interruptions.html>

Question #154*Topic 1*

Which AWS Cloud best practice makes advantage of cloud computing's flexibility and agility?

- 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

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 #155*Topic 1*

Users of Amazon Route 53 are able 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

Reference:

[**Question #156**](https://docs.aws.amazon.com/Route53/latest/DeveloperGuide>Welcome.html</div><div data-bbox=)*Topic 1*

Which characteristic of the Amazon Virtual Private Cloud (Amazon VPC) allows customers to link two VPCs?

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

Correct Answer: C

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 #157***Topic 1*

Which of the following is a NoSQL database service that is both quick and dependable?

- A. Amazon Redshift
- B. Amazon RDS
- C. Amazon DynamoDB
- D. Amazon S3

Correct Answer: C

Reference:

<https://aws.amazon.com/dynamodb/>**Question #158***Topic 1*

A client wants to develop and construct a new workload on AWS Cloud but lacks the necessary technical skills in AWS-related technologies.

Which of the following AWS programs may a client use to accomplish that goal?

- A. AWS Partner Network Technology Partners
- B. AWS Marketplace
- C. AWS Partner Network Consulting Partners
- D. AWS Service Catalog

Correct Answer: C

Question #159

Topic 1

Which AWS solution enables rapid setup and management of a new multi-account AWS environment?

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

Correct Answer: C

Reference:

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

Question #160

Topic 1

Which operation needs the usage of the root account user credentials for the AWS account?

- A. Closing an AWS account
- B. Creating a log file
- C. Modifying IAM user permissions
- D. Deleting IAM users

Correct Answer: A

Reference:

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

Question #161*Topic 1*

Which AWS situations exemplify the idea of elasticity? (Select 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

Reference:

<https://wa.aws.amazon.com/wat.concept.elasticity.en.html>**Question #162***Topic 1*

Which of the following are advantages of using the AWS Cloud to host infrastructure? (Select 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**Question #163***Topic 1*

Which of the following are benefits of Amazon Web Services' cloud computing platform? (Select 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

Reference:

<https://aws.amazon.com/compliance/data-center/controls/>**Question #164***Topic 1*

Which AWS service enables infrastructure as code management?

- A. AWS CodePipeline
- B. AWS CodeDeploy
- C. AWS Direct Connect
- D. AWS CloudFormation

Correct Answer: D

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 #165*Topic 1*

What are the benefits of deploying an application across various Availability Zones using Amazon EC2 instances? (Select 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

Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-increase-availability.html>**Question #166***Topic 1*

A business wishes to downsize its infrastructure in order to save money.

At what stages should a business downsize? (Select two.)

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

Correct Answer: DE

Reference:

<https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-right-sizing/tips-for-right-sizing-your-workloads.html>**Question #167***Topic 1*

AWS Budgets may be used for the following purposes:

- 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**Question #168***Topic 1*

What are the advantages of unified billing for Amazon Web Services accounts?

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

Correct Answer: B

Reference:

<https://jayendrapatil.com/aws-consolidated-billing/>**Question #169***Topic 1*

A corporation want to connect to AWS from a distant office through a private, low-latency connection.

Which strategy is advised for meeting 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

Reference:

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

Which Amazon EC2 pricing model is dynamically adjusted in response to EC2 instance availability and demand?

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

Correct Answer: C

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 #171*Topic 1*

Which service should a client utilize to integrate and manage several Amazon Web Services accounts centrally?

- A. AWS IAM
- B. AWS Organizations**
- C. AWS Schema Conversion Tool
- D. AWS Config

Correct Answer: *B*

Reference:

<https://aws.amazon.com/organizations/>**Question #172***Topic 1*

Which choices do users have when contacting AWS Support? (Select 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*

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 #173***Topic 1*

A business must track and anticipate AWS expenditures and use. Additionally, the organization must configure event-driven alert alerts that are triggered when expenditure limitations are exceeded.

Which Amazon Web Services (AWS) offering or technology should the business employ to achieve these requirements?

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

Correct Answer: *A*

Reference:

<https://aws.amazon.com/aws-cost-management/aws-budgets/>**Question #174***Topic 1*

Which AWS technologies aid in cost estimation? (Select 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*

Question #175*Topic 1*

In comparison to conventional and virtualized data center prices, AWS offers the following:

- 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

Reference:

<https://d1.awsstatic.com/whitepapers/introduction-to-aws-cloud-economics-final.pdf>
(10)

Question #176*Topic 1*

Which situations should the AWS Abuse team be notified about?

- 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

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>

Question #177*Topic 1*

How might an AWS client implement common access restrictions to a big group of users easily?

- 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

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 #178*Topic 1*

Which AWS feature should a client exploit to ensure an application's high availability?

- A. AWS Direct Connect
- B. Availability Zones
- C. Data centers
- D. Amazon Virtual Private Cloud (Amazon VPC)

Correct Answer: B

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 #179

Topic 1

Which AWS services are available for application deployment? (Select two.)

- A. AWS Elastic Beanstalk
- B. AWS Config
- C. AWS OpsWorks
- D. AWS Application Discovery Service
- E. Amazon Kinesis

Correct Answer: AC

Reference:

<https://d0.awsstatic.com/whitepapers/overview-of-deployment-options-on-aws.pdf>

Question #180

Topic 1

Which responsibility do customers bear while using Amazon EC2? (Select 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

Reference:

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

Question #181*Topic 1*

A business needs handle a huge volume of data from social network accounts using high-throughput graphical queries.

Which AWS service will assist the business in developing a cloud architecture that satisfies these criteria?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/neptune/>**Question #182***Topic 1*

Which AWS service enables the use of the AWS Cloud to host a NoSQL database?

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

Correct Answer: B

Reference:

<https://aws.amazon.com/nosql/>**Question #183***Topic 1*

On an Amazon EC2 instance, a batch job takes 5 hours to complete. Monthly, the quantity of data to be processed doubles, and the time required to process it is proportionate.

What is the optimal cloud architecture for meeting this escalating 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**Question #184***Topic 1*

Which AWS function will assist users in determining the CPU capacity of an application running on an Amazon EC2 instance?

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

Correct Answer: A

Reference:

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

Question #185*Topic 1*

How can AWS Trusted Advisor assist AWS Cloud users? (Select 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

Question #186*Topic 1*

A user may create a master payer account in order to access aggregated billing data via:

- A. AWS Budgets.
- B. Amazon Macie.
- C. Amazon QuickSight.
- D. AWS Organizations.

Correct Answer: D

Reference:

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

Question #187*Topic 1*

Every few years, a business invests several months in modernizing its on-premises infrastructure. The organization wishes to shorten the time required for infrastructure purchase by shifting to the AWS Cloud.

What is the primary advantage of transferring this use case to the AWS Cloud?

- 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

Question #188*Topic 1*

Which Amazon Web Services (AWS) offering allows customers to aggregate billing for many accounts?

- A. Amazon QuickSight
- B. AWS Organizations
- C. AWS Budgets
- D. Amazon Forecast

Correct Answer: B

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 #189*Topic 1*

Which of the following are advantages of Amazon Web Services' cloud computing platform?
(Select two.)

- A. Unlimited uptime
- B. Elasticity
- C. Agility
- D. Colocation
- E. Capital expenses

Correct Answer: BC

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 #190*Topic 1*

An application installed in the AWS Cloud exhibits irregular consumption patterns and is responsible for non-stop workloads.

Which Amazon EC2 pricing plan is the MOST cost-effective for this application?

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

Correct Answer: D

Reference:

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

Question #191*Topic 1*

Which of the following is a design concept for AWS Cloud architecture?

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

Correct Answer: B

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 #192*Topic 1*

The continuous lowering in AWS Cloud price is a result of the following:

- A. pay-as-you go pricing
- B. the AWS global infrastructure
- C. economies of scale**
- D. reserved storage pricing

Correct Answer: C

Reference:

<https://read.acloud.guru/there-are-four-reasons-to-explain-how-using-aws-can-change-the-economic-model-of-the-it-services-850dcc8ea1aa?gi=3bcf6cd0e1e2>

Question #193*Topic 1*

Which storage service can be utilized to host static webpages at a minimal cost?

- A. Amazon Glacier
- B. Amazon DynamoDB
- C. Amazon Elastic File System (Amazon EFS)
- D. Amazon Simple Storage Service (Amazon S3)**

Correct Answer: D

Reference:

<https://aws.amazon.com/getting-started/projects/host-static-website/>

Question #194*Topic 1*

Which AWS services are globally specified rather than regionally defined? (Select two.)

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

Correct Answer: AD

Reference:

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

Question #195*Topic 1*

A user must locate, categorize, and safeguard sensitive data stored in Amazon S3 automatically.

Which AWS service satisfies these criteria?

- A. Amazon Inspector
- B. Amazon Macie
- C. Amazon GuardDuty
- D. AWS Secrets Manager

Correct Answer: *B*

Question #196*Topic 1*

Which of the following allows customers to programmatically access the power of AWS services?

- A. AWS Command Line Interface (AWS CLI)
- B. AWS Trusted Advisor
- C. AWS CodeDeploy
- D. AWS Management Console

Correct Answer: *D*

Reference:

<https://aws.amazon.com/blogs/aws/category/aws-management-console/>

Question #197*Topic 1*

Which of the following is a method for enhancing AWS security? (Select 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*

Reference:

<https://aws.amazon.com/blogs/security/top-10-security-items-to-improve-in-your-aws-account/>

Question #198*Topic 1*

Under the AWS shared responsibility paradigm, the following parties are responsible for the security and patching of the guest operating system:

- A. AWS Support
- B. the customer
- C. AWS Systems Manager
- D. AWS Config

Correct Answer: *B*

Reference:

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

Question #199*Topic 1*

Which aspects of AWS make it cost viable for workloads with fluctuating customer demand?
(Select two.)

- A. High availability
- B. Shared security model
- C. Elasticity
- D. Pay-as-you-go pricing
- E. Reliability

Correct Answer: CD

Question #200*Topic 1*

A business wants to migrate 40TB of data from on-premises storage systems to Amazon S3. The transfer must occur as rapidly as feasible while maintaining a low cost. The firm has internet access at a speed of 100 megabits per second.

Which AWS service will satisfy these criteria?

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

Correct Answer: A

Snowball is better for 40TB transfer. It will make transfer while keeping the costs at minimum. With 100 mbps, it will be quick.

Question #201*Topic 1*

How might an AWS client implement common access restrictions to a big group of users easily?

- 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

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 #202*Topic 1*

A business need software solutions that are either hosted on the AWS platform or are linked with it. Independent software providers, as well as management and security vendors, are required to provide solutions.

Which organization or team is capable of providing 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

Reference:

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

Question #203*Topic 1*

Which AWS feature should a client exploit to ensure an application's high availability?

- A. AWS Direct Connect
- B. Availability Zones
- C. Data centers
- D. Amazon Virtual Private Cloud (Amazon VPC)

Correct Answer: B

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 #204*Topic 1*

Which AWS services are available for application deployment? (Select two.)

- A. AWS Elastic Beanstalk
- B. AWS Config
- C. AWS OpsWorks
- D. AWS Application Discovery Service
- E. Amazon Kinesis

Correct Answer: AC

Reference:

<https://d0.awsstatic.com/whitepapers/overview-of-deployment-options-on-aws.pdf>

Question #205*Topic 1*

Which responsibility do customers bear while using Amazon EC2? (Select 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

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/?ref=wellarchitected>**Question #206***Topic 1*

A business needs handle a huge volume of data from social network accounts using high-throughput graphical queries.

Which AWS service will assist the business in developing a cloud architecture that satisfies these criteria?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/neptune/>**Question #207***Topic 1*

Which AWS service enables the use of the AWS Cloud to host a NoSQL database?

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

Correct Answer: B

Reference:

<https://aws.amazon.com/nosql/>**Question #208***Topic 1*

On an Amazon EC2 instance, a batch job takes 5 hours to complete. Monthly, the quantity of data to be processed doubles, and the time required to process it is proportionate.

What is the optimal cloud architecture for meeting this escalating 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

A business is consolidating many apps into a single Amazon Web Services (AWS) account. The organization wishes to keep track of the AWS Cloud fees paid by individual applications.

What can the business do to ensure compliance with 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

Reference:

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

How can AWS Trusted Advisor assist AWS Cloud users? (Select 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

Question #211*Topic 1*

Which AWS function will assist users in determining the CPU capacity of an application running on an Amazon EC2 instance?

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

Correct Answer: A

Reference:

<https://aws.amazon.com/ec2/faqs/>**Question #212***Topic 1*

A user may create a master payer account in order to access aggregated billing data via:

- A. AWS Budgets.
- B. Amazon Macie.
- C. Amazon QuickSight.
- D. AWS Organizations.

Correct Answer: D

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>**Question #213***Topic 1*

Every few years, a business invests several months in modernizing its on-premises infrastructure. The organization wishes to shorten the time required for infrastructure purchase by shifting to the AWS Cloud.

What is the primary advantage of transferring this use case to the AWS Cloud?

- 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**Question #214***Topic 1*

Which Amazon Web Services (AWS) offering allows customers to aggregate billing for many accounts?

- A. Amazon QuickSight
- B. AWS Organizations
- C. AWS Budgets
- D. Amazon Forecast

Correct Answer: B

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 #215*Topic 1*

Which of the following are advantages of Amazon Web Services' cloud computing platform?
(Select two.)

- A. Unlimited uptime
- B. Elasticity
- C. Agility
- D. Colocation
- E. Capital expenses

Correct Answer: BC

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 #216*Topic 1*

An application installed in the AWS Cloud exhibits irregular consumption patterns and is responsible for non-stop workloads.

Which Amazon EC2 pricing plan is the MOST cost-effective for this application?

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

Correct Answer: D

Reference:

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

Question #217*Topic 1*

A business is now undergoing a security examination. The audit includes a security and compliance review of the company's AWS infrastructure and services. The auditor must identify and download AWS security and compliance materials. The System and Organization Control (SOC) reports are one of these documents.

Which AWS service or collection of services is capable of providing these documents?

- A. AWS Abuse team
- B. AWS Artifact
- C. AWS Support
- D. AWS Config

Correct Answer: B

Reference:

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

Question #218*Topic 1*

Which of the following is a design concept for AWS Cloud architecture?

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

Correct Answer: B

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 #219*Topic 1*

The continuous lowering in AWS Cloud price is a result of the following:

- A. pay-as-you go pricing
- B. the AWS global infrastructure
- C. economies of scale
- D. reserved storage pricing

Correct Answer: C

Reference:

<https://read.acloud.guru/there-are-four-reasons-to-explain-how-using-aws-can-change-the-economic-model-of-the-it-services-850dcc8ea1aa?gi=3bcf6cd0e1e2>

Question #220*Topic 1*

Which phase discusses agility as an advantage of AWS Cloud-based development?

- 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

Reference:

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

Question #221*Topic 1*

A business wishes to deliver managed Windows virtual desktops and programs through secure network connections to its distant workers.

Which AWS services does the business have access to in order to achieve these requirements? (Select 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

Reference:

<https://aws.amazon.com/workspaces/?workspaces-blogs.sort-by=item.additionalFields.createdDate&workspaces-blogs.sort-order=desc>

Question #222*Topic 1*

Which of the following is an AWS shared responsibility?

- A. Identity and access management (IAM)
- B. Server-side encryption (SSE)
- C. Firewall configuration
- D. Maintaining physical hardware

Correct Answer: D

Reference:

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

Question #223*Topic 1*

Which storage service can be utilized to host static webpages at a minimal cost?

- A. Amazon Glacier
- B. Amazon DynamoDB
- C. Amazon Elastic File System (Amazon EFS)
- D. Amazon Simple Storage Service (Amazon S3)

Correct Answer: D

Reference:

<https://aws.amazon.com/getting-started/projects/host-static-website/>

Question #224*Topic 1*

Which AWS services are globally specified rather than regionally defined? (Select two.)

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

Correct Answer: AD

Reference:

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

Question #225*Topic 1*

A user must locate, categorize, and safeguard sensitive data stored in Amazon S3 automatically.

Which AWS service satisfies these criteria?

- A. Amazon Inspector
- B. Amazon Macie
- C. Amazon GuardDuty
- D. AWS Secrets Manager

Correct Answer: B

Question #226*Topic 1*

On an Amazon EC2 instance, a business hosts an application. Several AWS resources, including Amazon S3 and Amazon DynamoDB, are required by the EC2 instance.

What is the MOST OPTIMAL way 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

Reference:

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

Question #227*Topic 1*

Which of the following allows customers to programmatically access the power of AWS services?

- A. AWS Command Line Interface (AWS CLI)
- B. AWS Trusted Advisor
- C. AWS CodeDeploy
- D. AWS Management Console

Correct Answer: D

Reference:

<https://aws.amazon.com/blogs/aws/category/aws-management-console/>

Question #228*Topic 1*

Under the AWS shared responsibility paradigm, the following parties are responsible for the security and patching of the guest operating system:

- A. AWS Support
- B. the customer
- C. AWS Systems Manager
- D. AWS Config

Correct Answer: B

Reference:

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

Question #229

Topic 1

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

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

Correct Answer: BC

AWS Trusted Advisor -

Reduce costs, improve performance, improve security

Reference:

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

Question #230

Topic 1

A business wants to migrate 40TB of data from on-premises storage systems to Amazon S3. The transfer must occur as rapidly as feasible while maintaining a low cost. The firm has internet access at a speed of 100 megabits per second.

Which AWS service will satisfy these criteria?

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

Correct Answer: A

Snowball is better for 40TB transfer. It will make transfer while keeping the costs at minimum. With 100 mbps, it will be quick.

Question #231**Topic 1**

A business has a stateless application workload that can withstand brief periods of outage. The program conducts calculations in massively parallel fashion.

Which Amazon EC2 pricing model should the business choose to save costs?

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

Correct Answer: B

Reference:

<https://developer.ibm.com/recipes/tutorials/making-the-most-of-aws-spot-instances-5-best-practices/>

Question #232**Topic 1**

A freshly developed application by a corporation is rapidly gaining popularity. To enhance customer service, the firm want to establish a phone number that would enable it to handle the growing amount of calls received by its support employees.

Which Amazon Web Services (AWS) offering should be utilized to fulfill this requirement?

- A. Amazon Connect**
- B. Amazon CloudFront
- C. Amazon DirectConnect
- D. AWS Trusted Advisor

Correct Answer: A

Reference:

<https://docs.aws.amazon.com/connect/latest/adminguide/contact-center-phone-number.html>

Question #233**Topic 1**

Which of the following is a method for enhancing AWS security? (Select 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

Reference:

<https://aws.amazon.com/blogs/security/top-10-security-items-to-improve-in-your-aws-account/>

Question #234**Topic 1**

Which aspects of AWS make it cost viable for workloads with fluctuating customer demand? (Select two.)

- A. High availability
- B. Shared security model
- C. Elasticity**
- D. Pay-as-you-go pricing**
- E. Reliability

Correct Answer: CD

Question #235*Topic 1*

What is an example of AWS Cloud's high availability?

- 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*

Reference:

<https://aws.amazon.com/blogs/startups/high-availability-for-mere-mortals/>

Question #236*Topic 1*

How can Amazon EC2 Auto Scaling groups contribute to a web application's high availability?

- 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*

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 #237*Topic 1*

A business wishes to migrate some of its resources to the AWS Cloud. To comply with regulatory standards, data must stay on-premises and local. AWS and the company's resources must have a low latency.

Which Amazon Web Services (AWS) service or functionality may be leveraged to fulfill these requirements?

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

Correct Answer: *C*

Reference:

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

Question #238*Topic 1*

A business has specified the Amazon Web Services (AWS) resources it requires for a new application. The business must determine the expenses associated with operating the application on AWS.

What actions should the business take to comply with this stipulation?

- 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*

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/estimating-aws-resource-costs/>

Question #239*Topic 1*

For its steady-state database, a corporation runs a self-managed Oracle database directly on Amazon EC2. The corporation wishes to cut its computing expenses. Which option should the business choose in order to optimize savings over a three-year period?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/choosing-a-cloud-platform/>**Question #240***Topic 1*

A corporation is developing an application that must distribute photos and videos internationally with the least amount of delay possible.

Which strategy may the business take to do this in the most 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

Reference:

<https://aws.amazon.com/blogs/industries/how-to-build-a-global-scalable-low-latency-and-secure-machine-learning-medical-imaging-analysis-platform-on-aws/>

Question #241*Topic 1*

Which AWS service or functionality gives advice to customers about frequently asked billing questions?

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

Correct Answer: B**Question #242***Topic 1*

Which AWS services enable an on-premises infrastructure to be extended to the AWS Cloud?
(Select two.)

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

Correct Answer: BD

Reference:

<https://aws.amazon.com/hybrid/>**Question #243***Topic 1*

Which AWS service enables the generation of warnings based on a monthly bill estimate?

- A. AWS Config
- B. Amazon CloudWatch**
- C. AWS X-Ray
- D. AWS CloudTrail

Correct Answer: B

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 #244*Topic 1*

Which AWS service may be utilized to deploy the application?

- A. AWS AppSync
- B. AWS Batch
- C. AWS CodePipeline**
- D. AWS DataSync

Correct Answer: C

Question #245*Topic 1*

Which AWS service or functionality is by default highly available?

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

Correct Answer: D

Reference:

<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZ.html>**Question #246***Topic 1*

A business requires data migration from its on-premises environment to the AWS Cloud. The business demands extremely elastic and efficient connection.

Which AWS service satisfies these criteria?

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

Correct Answer: B

Reference:

<https://aws.amazon.com/storagegateway/faqs/>**Question #247***Topic 1*

At the moment, a company's online program is highly dependent on underlying components, which means that when one component fails, the whole web site falls.

Which AWS Cloud design concept is most appropriate for resolving the present 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**Question #248***Topic 1*

Which AWS service or functionality is exclusively accessible to AWS Enterprise Support customers?

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

Correct Answer: C

Reference:

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

Question #249*Topic 1*

Which resource is the MOST EFFECTIVE for keeping current on AWS security announcements?

- A. AWS Personal Health Dashboard
- B. AWS Secrets Manager
- C. AWS Security Bulletins
- D. Amazon Inspector

Correct Answer: C

Question #250*Topic 1*

Which AWS services aid in application performance optimization by lowering latency associated with global content access? (Select two.)

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

Correct Answer: AD

Reference:

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

Question #251*Topic 1*

Which of the following operations can be done only after logging in using the root user credentials for your AWS account? (Select 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**Question #252***Topic 1*

Which techniques are available for deriving AWS charges by department? (Select 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**Question #253***Topic 1*

Which AWS feature relates to a customer's flexibility to scale up and down applications to meet changeable demand?

- A. Elasticity
- B. Agility
- C. Security
- D. Scalability

Correct Answer: D**Question #254***Topic 1*

Which AWS services can be utilized to automate infrastructure? (Select two.)

- A. AWS CloudFormation
- B. Amazon CloudFront
- C. AWS Batch
- D. AWS OpsWorks
- E. Amazon QuickSight

Correct Answer: AD

Reference:

<https://blog.newrelic.com/engineering/best-cloud-infrastructure-automation-tools/>**Question #255***Topic 1*

Which AWS services enable users to link their AWS Cloud resources to their on-premises resources? (Select two.)

- A. AWS VPN
- B. Amazon Connect
- C. Amazon Cognito
- D. AWS Direct Connect
- E. AWS Managed Services

Correct Answer: AD

Reference:

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

Question #256**Topic 1**

While an Amazon EC2 instance is only activated when it is required, it must stay active throughout the life of the procedure.

What is the most acceptable method of purchase?

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

Correct Answer: C

Reference:

<https://jayendrapatil.com/aws-ec2-instance-purchasing-option/>**Question #257****Topic 1**

How can a client strengthen the security of their Amazon Web Services (AWS) account logons? (Select 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

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-programmatic-access/>**Question #258****Topic 1**

A business's operations are conducted on-site. The business want to anticipate the costs associated with hosting a major application on AWS.

Which AWS service or tool does the business have access to in order to collect this information?

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

Correct Answer: D

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ce-forecast.html>**Question #259****Topic 1**

A big firm often has a single Amazon Web Services (AWS) account.

What are the benefits of repurposing a single AWS account to create additional AWS accounts? (Select 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

Which solution enables a business with numerous AWS accounts to consolidate its consumption in order to qualify for bulk discounts?

- A. AWS Server Migration Service
- B. AWS Organizations**
- C. AWS Budgets
- D. AWS Trusted Advisor

Correct Answer: *B*

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 #261*Topic 1*

A business uses an Amazon EC2 Auto Scaling policy in conjunction with an Application Load Balancer to restore sick apps running on Amazon EC2 instances automatically.

This activity pertains to which pillar of the AWS Well-Architected Framework?

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

Correct Answer: D

Reference:

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

Question #262*Topic 1*

A business want to migrate current software licenses to AWS, however the licensing strategy involves licensing physical cores.

How can the organization do this 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

Reference:

<https://aws.amazon.com/blogs/compute/byol-and-oversubscription/>

Question #263*Topic 1*

Which service offers nearly infinite online storage for very durable objects?

- A. Amazon Redshift
- B. Amazon Elastic File System (Amazon EFS)
- C. Amazon Elastic Container Service (Amazon ECS)
- D. Amazon S3**

Correct Answer: D

Reference:

<https://aws.amazon.com/what-is-cloud-object-storage/>

Question #264*Topic 1*

Which AWS services are available for file storage? (Select two.)

- A. Amazon S3**
- B. AWS Lambda
- C. Amazon Elastic Block Store (Amazon EBS)
- D. Amazon SageMaker
- E. AWS Storage Gateway

Correct Answer: ACE

Reference:

<https://intellipaat.com/community/58120/which-aws-services-can-be-used-to-store-files>

Question #265*Topic 1*

A media business wants to disseminate video material through the internet to millions of viewers globally. The organization wishes to use AWS's worldwide network backbone in order to deliver cached material with minimal latency and fast data transfer rates.

Which AWS service will satisfy these criteria?

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

Correct Answer: A

Reference:

<https://aws.amazon.com/cloudfront/>**Question #266***Topic 1*

Which AWS service or feature enables businesses to take advantage of AWS's volume discounts?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/organizations/>**Question #267***Topic 1*

Which AWS IAM feature is used to link numerous users with a set of permissions?

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

Correct Answer: B

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 #268***Topic 1*

Which AWS service enables application decoupling?

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

Correct Answer: B

Question #269*Topic 1*

Amazon EC2 web servers connect to a traditional application operating in a corporate data center.

What phrase would be appropriate to use to describe this model?

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

Correct Answer: C

Reference:

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

Question #270*Topic 1*

A previously utilized Amazon EC2 instance for development is no longer available and does not display in the AWS Management Console.

Which AWS service should be utilized to discover what activity resulted in the inaccessibility of this EC2 instance?

- A. Amazon CloudWatch Logs
- B. AWS Security Hub
- C. Amazon Inspector
- D. AWS CloudTrail

Correct Answer: D

Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/troubleshooting-launch.html>

Question #271**Topic 1**

A Cloud Practitioner is required to retain data for seven years in order to comply with regulatory standards.

Which AWS service meets this need for the LEAST amount of money?

- A. Amazon S3
- B. AWS Snowball
- C. Amazon Redshift
- D. Amazon S3 Glacier

Correct Answer: D

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 #272**Topic 1**

What does AWS's obligation under the shared responsibility paradigm entail?

- 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

Reference:

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

Question #273**Topic 1**

AWS CloudFormation is intended to assist the user in the following ways:

- A. model and provision resources.
- B. update application code.
- C. set up data lakes.
- D. create reports for billing.

Correct Answer: A

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 #274**Topic 1**

A business wishes to grant access to Amazon RDS to one of its workers. Additionally, the corporation wishes to confine contact to the AWS CLI and AWS software development kits (SDKs).

Which combination of measures should the business do in order to satisfy these needs while adhering to the concept of least privilege? (Select 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

Question #275*Topic 1*

Which of the following guidelines constitutes a well-architected design philosophy for cloud application development?

- 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***Question #276***Topic 1*

The following are the economical advantages of using AWS: (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***Question #277***Topic 1*

How can a business use AWS to lower its Total Cost of Ownership (TCO)?

- 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*

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 #278*Topic 1*

Which acts exemplify excellent practices for AWS IAM use? (Select 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*

Reference:

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

Question #279*Topic 1*

What are the immediate advantages of AWS Cloud computing? (Select 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

Question #280*Topic 1*

A business's website is hosted on Amazon EC2 instances. The firm must guarantee that the website is accessible to a worldwide audience and has a low latency for visitors.

Which Amazon Web Services (AWS) offering should the business employ to achieve these requirements?

- A. Amazon Route 53
- B. Amazon CloudFront
- C. Elastic Load Balancing
- D. AWS Lambda

Correct Answer: A

Reference:

<https://aws.amazon.com/route53/faqs/>

Question #281*Topic 1*

A business employs Amazon EC2 infrastructure to host steady-state workloads and is looking to save money.

Which pricing model for EC2 instances should the business choose?

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

Correct Answer: A

Reference:

<https://aws.amazon.com/ec2/pricing/>**Question #282***Topic 1*

How might AWS help a business manage expenditures when an application's consumption fluctuates 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**Question #283***Topic 1*

Which actions should a user take if he or she detects a hacked AWS account? (Make a selection of at least 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**Question #284***Topic 1*

Which job, in accordance with the AWS shared responsibility model, is AWS's duty for workloads operating 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

Reference:

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

Question #285*Topic 1*

How can AWS MOST effectively cut a rising start-computing up's costs?

- 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

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 #286*Topic 1*

Which service manages objects by storing them, providing real-time access to them, and managing their versions and lifecycles?

- A. Amazon Glacier
- B. AWS Storage Gateway
- C. Amazon S3
- D. Amazon EBS

Correct Answer: C

Reference:
<https://aws.amazon.com/s3/faqs/>

Question #287*Topic 1*

Which Amazon Web Services (AWS) service may be used to securely store and manage source code versions?

- A. AWS CodeBuild
- B. AWS CodeCommit
- C. AWS CodePipeline
- D. AWS CodeStar

Correct Answer: B

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

Question #288*Topic 1*

Which tool may be used to track planned AWS infrastructure changes?

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

Correct Answer: A

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

Question #289*Topic 1*

Which of the following are AWS security recommended practices for managing an AWS account's root user using AWS Identity and Access Management (IAM)? (Choose~~s~~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

Reference:

<https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>**Question #290***Topic 1*

Which AWS Support package is the LEAST costly and gives 24-hour access to AWS customer care and communities?

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

Correct Answer: D

Reference:

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

Question #291*Topic 1*

A firm that does business online must supply new capabilities rapidly and iteratively, decreasing time to market.

Which AWS Cloud function is capable of doing this?

- A. Elasticity
- B. High availability
- C. Agility
- D. Reliability

Correct Answer: C

Reference:

<https://aws.amazon.com/devops/partner-solutions/>**Question #292***Topic 1*

A business has a concentrated group of users with significant file storage needs that outstrip the available capacity on-premises. The organization wishes to expand its file storage capacities for this group while maintaining the performance advantages associated with local content sharing.

Which AWS option is the MOST OPERATIONALLY EFFECTIVE in 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**Question #293***Topic 1*

Which AWS feature enables a business to use consumption levels across different member accounts?

- A. Service control policies (SCPs)
- B. Consolidated billing
- C. All Upfront Reserved Instances
- D. AWS Cost Explorer

Correct Answer: B

Reference:

<https://aws.amazon.com/tco-calculator/>**Question #294***Topic 1*

To utilize the AWS CLI, users must produce the following:

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

Correct Answer: B

Question #295*Topic 1*

Which AWS solution enables customers to extend AWS infrastructure, AWS services, APIs, and tools to data centers, co-location settings, or on-premises facilities through a hybrid architecture?

- A. AWS Snowmobile
- B. AWS Local Zones
- C. AWS Outposts
- D. AWS Fargate

Correct Answer: C

Reference:

<https://aws.amazon.com/outposts/>**Question #296***Topic 1*

Which service allows consumers to audit AWS API calls?

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

Correct Answer: A

Reference:

<https://aws.amazon.com/cloudtrail/>**Question #297***Topic 1*

Which AWS service would be utilized to manage AWS access across numerous accounts in a centralized fashion?

- A. AWS Service Catalog
- B. AWS Config
- C. AWS Trusted Advisor
- D. AWS Organizations

Correct Answer: D

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 #298***Topic 1*

Which opportunities does AWS provide for clients interested in learning about cloud security in an instructor-led setting? (Select two.)

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

Correct Answer: BE

Question #299*Topic 1*

Which Amazon Web Offerings (AWS) services provide computational capabilities? (Select two.)

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

Correct Answer: AE

Reference:

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

Question #300*Topic 1*

A business wishes to launch a worldwide commercial application using Amazon Elastic Compute Cloud (Amazon EC2). The deployment solution should be constructed with the greatest degree of redundancy and fault tolerance possible.

According to this scenario, the following 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

Reference:

<https://jayendrapatil.com/aws-high-availability-fault-tolerance-architecture-certification/>

Question #301*Topic 1*

Which tool is most suited for integrating the billing of previously distinct AWS accounts?

- A. Detailed billing report
- B. Consolidated billing**
- C. AWS Cost and Usage report
- D. Cost allocation report

Correct Answer: *B*

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>**Question #302***Topic 1*

How can deploying an application across several Availability Zones benefit you?

- 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*

Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>**Question #303***Topic 1*

Which of the following enables AWS customers to control billing expense allocations?

- 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***Question #304***Topic 1*

A business is developing an application that will be hosted in a single AWS Region and will serve end customers located around the globe. The firm wishes to give low-latency access to application data to end users.

Which of the following services will assist you in achieving your goal?

- 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*

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.

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Reference:

<https://aws.amazon.com/about-aws/global-infrastructure/localzones/faqs/>

Question #305*Topic 1*

What expenses should be addressed when comparing the total cost of ownership (TCO) of an on-premises infrastructure to a cloud architecture? (Select 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

Reference:

<https://aws.amazon.com/tco-calculator/>**Question #306***Topic 1*

Which AWS service or functionality enables the user to control application traffic between regions?

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

Correct Answer: A**Question #307***Topic 1*

Which service is an AWS-managed Hadoop framework that enables processing massive volumes of data across dynamically expandable Amazon EC2 instances simple, quick, and cost-effective?

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

Correct Answer: A

Reference:

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

Question #308*Topic 1*

What is the greatest place for a user to get information and reports on AWS compliance?

- A. AWS Artifact
- B. AWS Marketplace
- C. Amazon Inspector
- D. AWS Support

Correct Answer: A

Reference:

<https://aws.amazon.com/compliance/faq/>

Question #309*Topic 1*

A business wishes to be alerted when its AWS Cloud expenses or usage surpass certain limits. Which Amazon Web Services (AWS) offering will meet these requirements?

- A. AWS Budgets
- B. Cost Explorer
- C. AWS CloudTrail
- D. Amazon Macie

Correct Answer: A

Reference:

<https://aws.amazon.com/aws-cost-management/aws-budgets/>**Question #310***Topic 1*

A business needs to monitor changes to AWS resource configurations for compliance purposes.

Which Amazon Web Services functionality may be utilized to fulfill 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

Reference:

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

Question #311*Topic 1*

A customer requests advise on potential cost reductions associated with the migration from on-premises to AWS.

Which tool is most appropriate in this situation?

- A. AWS Budgets
- B. Cost Explorer
- C. AWS Total Cost of Ownership (TCO) Calculator**
- D. AWS Well-Architected Tool

Correct Answer: C

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 #312*Topic 1*

Which of the following is a recommended method for setting IAM user policies?

- 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

Reference:

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

Question #313*Topic 1*

How can consolidated billing benefit a business with many 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

Reference:

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

Question #314*Topic 1*

AWS's pay-as-you-go pricing model:

- 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

Reference:

<https://www.10thmagnitude.com/opex-vs-capex-the-real-cloud-computing-cost-advantage/>

Question #315*Topic 1*

Which AWS Cloud feature enables resource supply to be matched to changing workload demands?

- A. Security
- B. Reliability
- C. Elasticity
- D. High availability

Correct Answer: C

Reference:

<https://wa.aws.amazon.com/wat.map.en.html>**Question #316***Topic 1*

A business has chosen to shift its production workloads to the Amazon Web Services (AWS) Cloud.

Which activities may assist in lowering operating expenses associated with the migration? (Select 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**Question #317***Topic 1*

A business wants to provide a single user complete access to an Amazon S3 bucket.

Which element in the S3 bucket policy contains information about the users who need access to the S3 bucket?

- A. Principal
- B. Action
- C. Resource
- D. Statement

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/AmazonS3/latest/dev/walkthrough1.html>**Question #318***Topic 1*

Which Amazon Web Services (AWS) solution enables clients to acquire unused Amazon EC2 capacity at often reduced prices?

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

Correct Answer: D

Reference:

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

Question #319**Topic 1**

Which of the following procedures should a client perform while doing penetration testing on Amazon Web Services (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

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 #320**Topic 1**

Which service would be responsible for network connection in a hybrid design that incorporates Amazon Web Services?

- A. Amazon VPC
- B. AWS Direct Connect
- C. AWS Directory Service
- D. Amazon API Gateway

Correct Answer: B

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-cloud-connectivity-but-which-service-works-best-for-your-use-case/>

Question #321*Topic 1*

What is the name given to the several, separate sites inside an AWS Region that are linked by low-latency networks?

- A. AWS Direct Connects
- B. Amazon VPCs
- C. Edge locations
- D. Availability Zones

Correct Answer: D

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 high-bandwidth 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 #322*Topic 1*

Which Amazon EC2 price option is appropriate for applications that need intermittent, spiky, or unexpected workloads?

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

Correct Answer: C**Question #323***Topic 1*

Which of the following AWS services can be utilized to efficiently deliver big volumes of online video content? (Select two.)

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

Correct Answer: BE

Reference:

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

Question #324*Topic 1*

The application of a business has a variable start and finish time.

Which pricing option for Amazon EC2 will be the MOST cost-effective?

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

Correct Answer: B

Reference:

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

Question #325*Topic 1*

What enables a business to give a low-latency experience to its worldwide users?

- 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*

Reference:

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

Question #326*Topic 1*

Which Amazon Web Services (AWS) service can be used to monitor illegal API calls?

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

Correct Answer: *B***Question #327***Topic 1*

An ecommerce firm predicts a significant rise in online traffic in the run-up to two very popular shopping holidays.

Which AWS service or functionality enables dynamic resource adjustment in response to this change in demand?

- A. AWS CloudTrail
- B. Amazon EC2 Auto Scaling
- C. Amazon Forecast
- D. AWS Config

Correct Answer: *B*

Reference:

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

Question #328*Topic 1*

Which strategy contributes to the cost optimization of consumers migrating 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*

Reference:

<https://www.cloudmanagementinsider.com/ways-to-optimize-aws-cost/>

A business has optimized its workload by using certain AWS services in order to increase efficiency and minimize costs.

Which cost management best practice does this case demonstrate?

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

Correct Answer: B

Reference:

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

Which feature of cloud computing can AWS exhibit via its capacity to provide reduced variable prices as a consequence of big purchase volumes?

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

Correct Answer: D

Reference:

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

Question #331*Topic 1*

Customer duties under the AWS shared responsibility model include which 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

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/>**Question #332***Topic 1*

A customer with an AWS Basic Support subscription has discovered that their AWS resources are being used for unauthorized purposes.

What is the preferred mechanism for the user to notify AWS of the activity?

- 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**Question #333***Topic 1*

Which AWS service should a business use to check the compliance of AWS resource settings on a continual basis?

- A. AWS Organizations
- B. AWS Config**
- C. AWS Artifact
- D. AWS Service Catalog

Correct Answer: B

Reference:

<https://aws.amazon.com/config/#:~:text=AWS%20Config%20is%20a%20service,recorded%20configurations%20against%20desired%20configurations>**Question #334***Topic 1*

Which AWS Cloud feature relieves customers of the requirement to estimate future infrastructure consumption?

- 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

Question #335*Topic 1*

A business is contemplating migrating its on-premises data center to Amazon Web Services (AWS).

What aspects should a Total Cost of Ownership (TCO) study consider? (Select 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

Question #336*Topic 1*

Which pattern is suggested for creating an AWS highly available architecture?

- 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

Question #337*Topic 1*

A business currently operates an on-premises Microsoft SQL Server instance and is transferring its application to AWS. Although the firm lacks the resources necessary to modify the program, management wants to cut operating costs as part of the move.

Which database service is most capable of meeting these requirements?

- A. Amazon DynamoDB
- B. Amazon Redshift
- C. Microsoft SQL Server on Amazon EC2
- D. Amazon RDS for SQL Server**

Correct Answer: D

Question #338*Topic 1*

What is an example of AWS Cloud agility?

- 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

Reference:

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

What are the advantages of using loose coupling as a design paradigm for cloud architectures?

- 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

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/>

A business operates a website that is hosted on AWS and is protected by an Application Load Balancer. The business wishes to protect its website against SQL injection and cross-site scripting.

Which Amazon Web Services (AWS) service should the business use?

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

Correct Answer: B

Reference:

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

Question #341*Topic 1*

Which of the following is an example of a frequent IT duty that AWS can do in order to free up firm IT resources? (Select two.)

- A. Patching databases software
- B. Testing application releases
- C. Backing up databases
- D. Creating database schema
- E. Running penetration tests

Correct Answer: AC**Question #342***Topic 1*

How should a web application be deployed in the AWS Cloud to guarantee high availability?

- 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

Reference:

<https://www.betsol.com/blog/how-to-make-high-availability-web-applications-on-amazon-web-services/>

Question #343*Topic 1*

Which AWS service or feature enables a business to track, monitor, and control its AWS expenses and consumption over time?

- A. AWS Budgets
- B. AWS Cost Explorer
- C. AWS Organizations
- D. Consolidated billing

Correct Answer: B

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 #344*Topic 1*

A huge corporation has recruited a developer who requires AWS credentials.

Which security best practices should be adhered to? (Select 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

Question #345*Topic 1*

A business has a 500 TB image repository that has to be moved to Amazon Web Services (AWS) for processing.

Which AWS service is the most cost-effective way to import this data?

- A. AWS Snowball
- B. AWS Direct Connect
- C. AWS VPN
- D. Amazon S3

Correct Answer: D

Reference:

<https://aws.amazon.com/blogs/storage/migrating-hundreds-of-tb-of-data-to-amazon-s3-with-aws-datasync/>

Question #346*Topic 1*

A workload hosted on AWS will continue to operate indefinitely by using a steady number of Amazon EC2 instances.

Which pricing strategy will decrease costs while assuring the availability of computational resources?

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

Correct Answer: D

Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-reserved-instances.html>

Question #347*Topic 1*

What is an AWS Cloud best practice in terms of design?

- A. Tight coupling of components
- B. Single point of failure
- C. High availability
- D. Overprovisioning of resources

Correct Answer: C**Question #348***Topic 1*

A business is developing an application that will need the capacity to transmit, save, and receive messages across its component components. Additionally, the corporation requires that communications be processed in first-in, first-out (FIFO) sequence.

Which Amazon Web Services (AWS) service should the business 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

Reference:

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

A business requires 24/7 phone, email, and chat support, with a response time of less than one hour in the event of a service outage to a production system.

Which AWS Support plan best matches these needs for the least amount of money?

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

Correct Answer: C

Reference:

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

A customer is considering migrating an application burden to the Amazon Web Services (AWS) Cloud.

Which control becomes AWS's responsibility after the migration?

- 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

Question #351*Topic 1*

What is the function of a VPC's internet gateway?

- 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***Question #352***Topic 1*

Which AWS IAM feature enables developers to use the AWS CLI to access AWS services?

- A. API keys
- B. Access keys
- C. User names/Passwords
- D. SSH keys

Correct Answer: *B*

Reference:

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html**Question #353***Topic 1*

On AWS, a corporation is constructing a new archiving system capable of storing terabytes of data. The firm will NOT often retrieve the data.

Which Amazon S3 storage type will result in the LOWEST SYSTEM COST?

- 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*

Reference:

<https://aws.amazon.com/s3/faqs/>**Question #354***Topic 1*

Which AWS Support package includes access to architectural and operational assessments, as well as 24/7 email, online chat, and phone support from Senior Cloud Support Engineers?

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

Correct Answer: *D*

Reference:

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

Question #355*Topic 1*

Which of the following describes the root user of an AWS account?

- 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

Reference:

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_root-user.html

Question #356*Topic 1*

The AWS IAM recommended practice for providing the fewest possible privileges is as follows:

- 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

Reference:

<https://kirkpatrickprice.com/blog/best-practices-for-privilege-management-in-aws/>

Question #357*Topic 1*

To prevent fraudulent compute activity, a user need a simple method to detect whether any Amazon EC2 instances have unlimited access to their ports.

Which Amazon Web Services (AWS) offering will meet this requirement?

- A. VPC Flow Logs
- B. AWS WAF
- C. AWS CloudTrail
- D. AWS Trusted Advisor

Correct Answer: D

Reference:

<https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>

Question #358*Topic 1*

Which AWS service is a content delivery network that safely and quickly distributes data, video, and apps to consumers worldwide?

- A. AWS CloudFormation
- B. AWS Direct Connect
- C. Amazon CloudFront
- D. Amazon Pinpoint

Correct Answer: C

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 in 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 #359*Topic 1*

Which AWS feature is exemplified by on-demand technology services that allow businesses to substitute variable expenditures for upfront fixed expenses?

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

Correct Answer: C

Reference:

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

Question #360*Topic 1*

A business is relocating and need an encrypted connection to AWS.

Which AWS service will assist you in fulfilling this requirement?

- A. AWS VPN
- B. Amazon Route 53
- C. Amazon API Gateway
- D. Amazon Connect

Correct Answer: A

Reference:

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

Question #361**Topic 1**

A major corporation has a workload that demands on-premises hardware. The organization want to continue using the same management and control plane services as it does on AWS.

Which Amazon Web Services (AWS) offering should the business employ to achieve these requirements?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/outposts/>**Question #362****Topic 1**

What technology permits compute capacity to alter in response to changing load conditions?

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

Correct Answer: D

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 #363****Topic 1**

A business operates an ecommerce application that is hosted in Europe. To reduce latency for international customers accessing the website, the firm would want to cache frequently viewed static information closer to the consumers.

Which Amazon Web Services (AWS) offering will meet 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

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 #364****Topic 1**

Which of the following is not a recommended approach for IAM user management? (Select 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

Reference:

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

Question #365*Topic 1*

Which Amazon Web Services feature assists in identifying harmful or illegal activity in AWS accounts and workloads?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/guardduty/>**Question #366***Topic 1*

Which AWS service or functionality provides technical support to users who subscribe to 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**Question #367***Topic 1*

Which AWS service enables you to get AWS security and compliance information on-demand?

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

Correct Answer: B

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 #368***Topic 1*

Which Amazon Web Services (AWS) service makes use of edge locations?

- A. Amazon Aurora
- B. AWS Global Accelerator
- C. Amazon Connect
- D. AWS Outposts

Correct Answer: B

Reference:

<https://aws.amazon.com/global-accelerator/>

Which of the following AWS capabilities allows a user to deploy an Amazon Elastic Compute Cloud (Amazon EC2) instance that has already been configured?

- A. Amazon Elastic Block Store (Amazon EBS)
- B. Amazon Machine Image**
- C. Amazon EC2 Systems Manager
- D. Amazon AppStream 2.0

Correct Answer: B

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/>

A business wishes to send its traffic directly and confidentially to a virtual private cloud (VPC) rather than through the public internet.

Which mode of connection enables this capability?

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

Correct Answer: D

Reference:

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

Question #371**Topic 1**

What can be utilized to automate and manage AWS setups that are safe, well-architected, and multi-account?

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

Correct Answer: B

Control Tower automates the process of setting up a new baseline multi-account AWS environment that is secure, well-architected, 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 #372**Topic 1**

Which AWS Support plan is the LEAST EXPENSIVE that provides for a one-hour goal response time for support cases?

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

Correct Answer: B

Reference:

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

Question #373**Topic 1**

Which AWS hybrid storage offering allows users to effortlessly integrate on-premises applications with AWS Cloud storage?

- A. AWS Backup
- B. Amazon Connect
- C. AWS Direct Connect
- D. AWS Storage Gateway**

Correct Answer: D

Reference:

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

Question #374**Topic 1**

A pharmaceutical company's infrastructure is managed in a single AWS Region. The organization want to link hundreds of VPCs across many AWS accounts.

Which AWS service or feature should the business use to streamline administration and save operating costs?

- A. VPC endpoint
- B. AWS Direct Connect
- C. AWS Transit Gateway**
- D. VPC peering

Correct Answer: C

Reference:

<https://d1.awsstatic.com/whitepapers/building-a-scalable-and-secure-multi-vpc-aws-network-infrastructure.pdf>

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Question #375*Topic 1*

Which tool is suitable for monitoring Amazon Web Services 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*

Reference:

<https://aws.amazon.com/blogs/mt/monitoring-service-limits-with-trusted-advisor-and-amazon-cloudwatch/>

Question #376*Topic 1*

Which AWS service enables you to swiftly conduct one-time queries on Amazon S3 data?

- A. Amazon EMR
- B. Amazon DynamoDB
- C. Amazon Redshift
- D. Amazon Athena**

Correct Answer: *D*

Reference:

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

Question #377*Topic 1*

One advantage of Amazon Elastic Compute Cloud (Amazon EC2) on-demand pricing is the following:

- 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*

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 #378*Topic 1*

Which AWS Support package is the LEAST EXPENSIVE that includes a dedicated AWS technical account manager (TAM)?

- A. AWS Developer Support
- B. AWS Enterprise Support**
- C. AWS Basic Support
- D. AWS Business Support

Correct Answer: *B*

Reference:

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

Which VPC component adds an additional layer of protection to the subnet?

- A. Security groups
- B. Network ACLs
- C. NAT gateways
- D. Route tables

Correct Answer: A

Reference:

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

Which AWS service or functionality involves the implementation of an internet service provider (ISP) and a colocation facility?

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

Correct Answer: C

Reference:

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

Question #381**Topic 1**

Which cloud architectural design concepts are advised for re-architecting a huge monolithic application? (Select 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

Rearchitecting applications involves sweeping change where an old monolithic application is completely revamped according to modern microservices architecture. Using individual components to re-architect 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 #382**Topic 1**

The worldwide architecture of Amazon Web Services is comprised of Regions, Availability Zones, and what else?

- A. VPCs
- B. Data centers
- C. Dark fiber network links
- D. Edge locations

Correct Answer: B

Reference:

<https://www.inqdo.com/aws-explained-global-infrastructure/?lang=en>

Question #383**Topic 1**

A business must monitor its AWS accounts and determine when an API request is performed against its AWS resources.

Which AWS product or service is most appropriate for meeting these requirements?

- A. Amazon CloudWatch
- B. Amazon Inspector
- C. AWS Cloud Trail
- D. AWS IAM

Correct Answer: C

Reference:

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

Question #384**Topic 1**

Which AWS Cloud feature will enable a multinational corporation to meet its demand 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

Question #385*Topic 1*

A business currently operates in one AWS Region and is extending operations to a second. In the second Region, the organization is utilizing the identical AWS CloudFormation template as in the original Region. When the organization seeks to deploy Amazon EC2 On-Demand Instances in the second Region, it encounters errors.

What might possibly be the source of 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

The key pair <key pair associated with your EC2 instance> does not exist. Launching EC2 instance failed.

Reference:

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

Question #386*Topic 1*

Which principles are used while architecting apps for AWS Cloud reliability? (Select 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

Reference:

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

Question #387*Topic 1*

AWS is responsible for which of the following security-related elements of hosting an Amazon Elastic Compute Cloud (Amazon EC2) instance?

- 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**Question #386***Topic 1*

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- D. Policies controlling instance access

Correct Answer: B**Question #388***Topic 1*

Which feature of the AWS Cloud enables customers to reduce idle CPU capacity?

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

Correct Answer: B**Question #389***Topic 1*

Which of the following statements most accurately characterizes 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

Reference:

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

A corporation is developing a mobile application to give its clients with shopping suggestions. The business intends to include a graph database into the shopping recommendation engine.

Which Amazon Web Services database service should the business use?

- A. Amazon DynamoDB
- B. Amazon Aurora
- C. Amazon Neptune
- D. Amazon DocumentDB (with MongoDB compatibility)

Correct Answer: C

Reference:

<https://techcrunch.com/2017/11/29/amazon-introduces-an-aws-graph-database-service-called-amazon-neptune/>

Question #391**Topic 1**

Which AWS service allows clients to audit and monitor AWS resource changes?

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

Correct Answer: D

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 #392**Topic 1**

Which of the following is an advantage of using AWS's cloud computing platform?

- 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

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.amazonaws.com/IDC_Business_Value_of_AWS_Accelerates_Over_time.pdf

Question #393**Topic 1**

Which AWS service or feature gives information about planned events that are now occurring or may occur in the near future and may impact an AWS account?

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

Correct Answer: C

Reference:

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

Question #394**Topic 1**

A business has many Amazon Web Services accounts and want to streamline and unify its billing process.

Which AWS service is capable of doing this?

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

Correct Answer: B

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 #395*Topic 1*

What does it imply when a customer uses AWS to construct a hybrid cloud architecture?

- 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

Reference:

<https://aws.amazon.com/hybrid/>**Question #396***Topic 1*

A business wishes to anticipate its AWS Cloud expenses for the following year based on historical AWS Cloud spending patterns.

Which Amazon Web Services (AWS) offering should the business employ to achieve this requirement?

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

Correct Answer: B

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ce-forecast.html>**Question #397***Topic 1*

Which AWS service or feature can help to improve network security by restricting requests for a web application hosted on AWS from a certain network? (Select two.)

- A. AWS WAF
- B. AWS Trusted Advisor
- C. AWS Direct Connect
- D. AWS Organizations
- E. Network ACLs

Correct Answer: AE

Reference:

<https://aws.amazon.com/waf/><https://docs.aws.amazon.com/vpc/latest/userguide/vpc-network-acls.html>**Question #398***Topic 1*

Which components are necessary to configure an AWS site-to-site VPN connection successfully? (Select two.)

- A. Internet gateway
- B. NAT gateway
- C. Customer gateway
- D. Transit gateway
- E. Virtual private gateway

Correct Answer: CD

Question #399*Topic 1*

A business need security against increased distributed denial of service (DDoS) assaults on its website, as well as help from AWS professionals in the case of such an attack.

Which AWS managed service will satisfy these criteria?

- A. AWS Shield Advanced
- B. AWS Firewall Manager
- C. AWS WAF
- D. Amazon GuardDuty

Correct Answer: A

Reference:

<https://docs.aws.amazon.com/waf/latest/developerguide/ddos-overview.html>

Question #400*Topic 1*

A Cloud Practitioner requires a dedicated link between AWS resources and an on-premises system that is constant and devoted.

Which AWS service satisfies this criterion?

- A. AWS Direct Connect
- B. AWS VPN
- C. Amazon Connect
- D. AWS Data Pipeline

Correct Answer: A

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 #401*Topic 1*

Which AWS service or functionality allows customers to encrypt data stored in Amazon S3 during the storage process?

- A. IAM policies
- B. Server-side encryption
- C. Amazon GuardDuty
- D. Client-side encryption

Correct Answer: A

Reference:

<https://docs.aws.amazon.com/wellarchitected/latest/security-pillar/protecting-data-at-rest.html>**Question #402***Topic 1*

AWS provides which of the following security-related services? (Select 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

Reference:

<https://aws.amazon.com/security/>**Question #403***Topic 1*

Which AWS Help plan gives the bare minimum technical support through phone calls?

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

Correct Answer: B

Reference:

<https://aws.amazon.com/premiumsupport/plans/>**Question #404***Topic 1*

A business want to grow from one AWS Region to another.

What steps must the firm take to begin 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

Reference:

<https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-plan-region.html>

Question #405*Topic 1*

A business is contemplating transferring its applications to Amazon Web Services (AWS). The organization want to evaluate the cost of operating the workload on-premises vs running it on the AWS platform.

Which tool is appropriate for doing 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

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

Reference:

<https://awstcocalculator.com>

Question #406*Topic 1*

Each department inside a business has its own distinct Amazon Web Services account and payment mechanism. The new leadership of the corporation wants to centralize control and consolidate payments.

How may this be accomplished via the use of 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

Reference:

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

Question #407*Topic 1*

A user must have access to as many resources as necessary. Additionally, the user need the capacity to scale up and down with just a few minutes' notice.

Which AWS Cloud advantage best defines these capabilities?

- A. Reliability
- B. Economy of scale
- C. Elasticity**
- D. Pay-as-you-go pricing

Correct Answer: C

Reference:

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

Question #408*Topic 1*

Which condition must be completed in order to delink a member account 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

Question #409*Topic 1*

Which AWS dashboard delivers relevant and timely information to assist users in managing ongoing events and in planning for upcoming activities?

- A. AWS Service Health Dashboard
- B. AWS Personal Health Dashboard**
- C. AWS Trusted Advisor dashboard
- D. Amazon CloudWatch dashboard

Correct Answer: *B*

Reference:

<https://aws.amazon.com/premiumsupport/technology/personal-health-dashboard/>**Question #410***Topic 1*

Which actions can an IAM user accomplish if they have been given all available AWS Identity and Access Management (IAM) permissions?
(Select 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*

Question #411*Topic 1*

What components of a credential are necessary to get programmatic access to an Amazon Web Services account? (Select 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

Reference:

<https://docs.aws.amazon.com/general/latest/gr/aws-sec-cred-types.html>**Question #412***Topic 1*

A business needs safe access to an Amazon S3 bucket from an Amazon EC2 instance without requiring internet connectivity.

What strategy should the business use to reach this objective?

- A. VPN connection
- B. Internet gateway
- C. VPC endpoint
- D. NAT gateway

Correct Answer: C

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/ec2-instance-access-s3-bucket/>**Question #413***Topic 1*

The Amazon Web Services (AWS) Total Cost of Ownership (TCO) Calculator is used to determine the following:

- 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

Reference:

<https://aws.amazon.com/tco-calculator/>**Question #414***Topic 1*

Which solution for catastrophe recovery is the LEAST expensive?

- A. Warm standby
- B. Multisite
- C. Backup and restore
- D. Pilot light

Correct Answer: C

Question #415*Topic 1*

How is AWS asset management simpler than managing assets in a traditional 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*

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 #416*Topic 1*

A business is considering migrating from on-premises to AWS Cloud.

Which Amazon Web Services tool or service provide thorough data on expected cost reductions upon migration?

- A. AWS Total Cost of Ownership (TCO) Calculator**
- B. Cost Explorer
- C. AWS Budgets
- D. AWS Migration Hub

Correct Answer: *A*

Reference:

<https://docs.aws.amazon.com/migrationhub/latest/ug/hub-api.pdf>
(26)

Question #417*Topic 1*

A business requires the migration of a significant amount of data from an on-premises data center to the AWS Cloud. The internet connection at the workplace is sluggish and unstable.

Which Amazon Web Services (AWS) service is capable of facilitating this data transfer?

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

Correct Answer: *B*

Reference:

<https://aws.amazon.com/getting-started/projects/migrate-petabyte-scale-data/services-costs/#:~:text=Description%3A%20Snowball%20is%20a%20petabyte,transfer%20times%2C%20and%20security%20concerns>

Question #418*Topic 1*

What are the advantages of building and operating a new application on the AWS Cloud over on-premises development and deployment? (Select 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*

Question #419*Topic 1*

A business makes use of Amazon S3 buckets. To satisfy new needs, one of the company's departments activated S3 Cross-Region Replication for those buckets. The company's monthly bill was higher than normal.

Which AWS service or functionality may be utilized to verify that the cost increase is due to data replication?

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

Correct Answer: *B*

Reference:

<https://aws.amazon.com/aws-cost-management/aws-cost-explorer/>**Question #420***Topic 1*

A business wishes to deploy a highly available workload on AWS along with a disaster recovery strategy that would enable it to recover in the event of a regional service outage.

Which arrangement will satisfy these criteria?

- 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*

Reference:

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

Question #421**Topic 1**

A business needs to verify that two Amazon EC2 instances are located in different data centers with the lowest possible communication delay between them.

How is the business going to achieve 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

Question #422**Topic 1**

Which tool may be used to generate notifications when the cost of AWS services, either real or anticipated, exceeds a predefined threshold?

- A. Cost Explorer
- B. AWS Budgets
- C. AWS Cost and Usage Report
- D. AWS CloudTrail

Correct Answer: B

Reference:

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

Question #423**Topic 1**

Where can consumers obtain a list of AWS-recognized third-party security solution providers?

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

Correct Answer: A

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 #424**Topic 1**

A new service built on AWS must be very reliable. However, regulatory constraints mandate that all of its Amazon EC2 instances be situated in a single geographic region.

To comply with these criteria, best practices recommend that the EC2 instances be split into at least two groups:

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

Correct Answer: B

Reference:

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

Question #425*Topic 1*

Which of the following may be used to track down an Amazon EC2 instance's stopper?

- A. AWS CloudTrail
- B. Amazon Inspector
- C. Amazon CloudWatch
- D. VPC Flow Logs

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/monitoring-system-instance-status-check.html>

Question #426*Topic 1*

Which AWS services are responsible for managing and automating application deployments?
(Select two.)

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

Correct Answer: AD

Reference:

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

Question #427*Topic 1*

A user wishes to migrate old apps to the AWS Cloud in order to decrease total cost of ownership.

Which of the following options is the MOST cost-effective in terms of 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**Question #428***Topic 1*

A business uses an Amazon S3 bucket to store photographs for a public-facing website that is visited by millions of visitors worldwide.

Which AWS service will deliver this material with the least amount of lag possible?

- A. AWS WAF
- B. Amazon CloudWatch
- C. Amazon Cloud Front
- D. AWS CloudFormation

Correct Answer: C

Reference:

<https://aws.amazon.com/getting-started/hands-on/deliver-content-faster/>

Question #429

Topic 1

Which of the following services has functionality for mitigating Distributed Denial of Service (DDoS) attacks? (Select two.)

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

Correct Answer: AD

Reference:

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

Question #430

Topic 1

How does AWS charge for AWS Lambda consumption that exceeds the free tier? (Select 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

Question #431*Topic 1*

Which AWS service enables users to define custom pricing and usage restrictions and get notifications when those limits are exceeded?

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

Correct Answer: *B*

Reference:

<https://aws.amazon.com/getting-started/hands-on/control-your-costs-free-tier-budgets/>**Question #432***Topic 1*

A business uses Amazon EC2 Auto Scaling to manage the scaling of its Amazon EC2 instances.

Which AWS Cloud feature does this case demonstrate?

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

Correct Answer: *B***Question #433***Topic 1*

A business utilizes a Java web application. The organization want to utilize auto deployment to provide the AWS infrastructure and update its application. Which AWS service will satisfy these criteria?

- A. AWS Auto Scaling
- B. AWS Elastic Beanstalk**
- C. AWS Control Tower
- D. Amazon EC2

Correct Answer: *B*

You can simply upload your code and Elastic Beanstalk automatically handles the deployment.

Reference:

<https://aws.amazon.com/elasticbeanstalk/>**Question #434***Topic 1*

Which activity on the AWS Cloud is a customer duty under 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*

Reference:

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

Question #435*Topic 1*

AWS Cloud systems are built to endure the failure of one or more components.

What is this an illustration of?

- A. Elasticity
- B. High Availability**
- C. Scalability
- D. Agility

Correct Answer: *B*

Reference:

https://wa.aws.amazon.com/wat.question.REL_7.en.html

Question #436*Topic 1*

Which Amazon Web Services (AWS) offering enables customers to deploy resources in a consistent and repeatable manner?

- A. AWS Systems Manager
- B. AWS CloudFormation**
- C. AWS Batch
- D. AWS Config

Correct Answer: *B*

Reference:

<https://aws.amazon.com/products/management-and-governance/use-cases/provisioning-and-orchestration/>

Question #437*Topic 1*

Which of the following are legitimate modes of communication between a client and AWS services? (Select two.)

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

Correct Answer: *AC*

Question #438*Topic 1*

A business is in the process of moving from on-premises data centers to the AWS Cloud and is searching for hands-on assistance.

How can the business get this assistance? (Select 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*

Reference:

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

Which Amazon RDS feature enables the creation of globally redundant databases?

- A. Snapshots
- B. Automatic patching and updating
- C. Cross-Region read replicas
- D. Provisioned IOPS

Correct Answer: C

Reference:

<https://aws.amazon.com/blogs/aws/cross-region-read-replicas-for-amazon-rds-for-mysql/>

An IT department may deploy more servers in excess of what is required to operate a task.

Which cloud architecture design principle advocates for reversing this course of action?

- A. Protect data in transit and at rest.
- B. Stop guessing capacity.
- C. Improve through game days.
- D. Annotate documentation.

Correct Answer: B

Question #441*Topic 1*

Which AWS service or feature enables users to effortlessly extend connection across thousands of virtual private clouds (VPCs)?

- A. VPC peering
- B. AWS Transit Gateway**
- C. AWS Direct Connect
- D. AWS Global Accelerator

Correct Answer: B

Reference:

<https://aws.amazon.com/blogs/training-and-certification/explore-the-aws-transit-gateway-networking-and-scaling-digital-course/>

Question #442*Topic 1*

Which AWS solution enables businesses to link an Amazon Virtual Private Cloud (VPC) to an on-premises data center?

- A. AWS VPN
- B. Amazon Redshift
- C. API Gateway
- D. Amazon Connect**

Correct Answer: D

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 #443*Topic 1*

A client need a MySQL database that scales quickly.

Which Amazon Web Services (AWS) service should they use?

- A. Amazon Aurora**
- B. Amazon Redshift
- C. Amazon DynamoDB
- D. Amazon ElastiCache

Correct Answer: A

Reference:

<https://aws.amazon.com/rds/aurora/serverless/>

Question #444*Topic 1*

Which security credentials are needed to use the AWS Command Line Interface (AWS CLI) to execute commands?

- 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

Reference:

<https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-quickstart.html>

Question #445*Topic 1*

Which Amazon Web Services offering is best suited for event-driven workloads?

- A. Amazon EC2
- B. AWS Elastic Beanstalk
- C. AWS Lambda
- D. Amazon Lumberyard

Correct Answer: C

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-database-and-networking-services/>

Question #446*Topic 1*

Which of the following are advantages of using AWS's cloud computing platform? (Select 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**Question #447***Topic 1*

Which AWS service makes AWS security and compliance documents available on-demand?

- A. AWS Directory Service
- B. AWS Artifact
- C. AWS Trusted Advisor
- D. Amazon Inspector

Correct Answer: B

Reference:

<https://aws.amazon.com/artifact/#:~:text=AWS%20Artifact%20is%20your%20go,reports%20and%20select%20online%20agreements.>

Question #448*Topic 1*

Which AWS service determines security groups that enable a user's AWS resources to be accessed without restriction?

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

Correct Answer: B**Question #449***Topic 1*

Which AWS service is capable of converting text to natural-sounding speech?

- A. Amazon Polly
- B. Amazon Transcribe
- C. Amazon Rekognition
- D. Amazon Lex

Correct Answer: A

Reference:

<https://aws.amazon.com/polly/#:~:text=Amazon%20Polly%20is%20a%20service,synthesize%20natural%20sounding%20human%20speech.>

A business has an application that is used in Australia and Brazil. All of the company's infrastructure is now provided in Australia's Asia Pacific (Sydney) Region, which results in excessive latency for Brazilian consumers.

What should the business do to minimize 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

Reference:

<https://aws.amazon.com/transit-gateway/>

Question #451*Topic 1*

To maximize expenses and resource utilization, a business must monitor the operational health of its whole AWS Cloud computing system.

Which AWS service will satisfy these criteria?

- A. AWS Organizations
- B. Amazon CloudWatch**
- C. AWS CloudTrail
- D. AWS Config

Correct Answer: *B*

Reference:

<https://aws.amazon.com/aws-cost-management/aws-cost-optimization/monitor-track-and-analyze/>

Question #452*Topic 1*

A business is transferring its on-premises data center to AWS and want to give Linux customers with NFS access.

Which Amazon Web Services (AWS) service should the business 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*

Reference:

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

Question #453*Topic 1*

What steps should a client take if they fear their AWS account has been compromised? (Select 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*

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/potential-account-compromise/>

Question #454*Topic 1*

Which AWS Cloud feature is shown by an architecture's capacity to recover quickly from failures?

- A. Agility
- B. Elasticity
- C. Scalability
- D. High availability**

Correct Answer: *D*

Question #455*Topic 1*

Which Amazon Web Services (AWS) offering provides managed NoSQL databases?

- A. Amazon Redshift
- B. Amazon DynamoDB
- C. Amazon Aurora
- D. Amazon RDS for MariaDB

Correct Answer: *B*

Reference:

<https://aws.amazon.com/dynamodb/>**Question #456***Topic 1*

Which of the following is a managed Domain Name System (DNS) online service provided by Amazon Web Services (AWS)?

- A. Amazon Route 53
- B. Amazon Neptune
- C. Amazon SageMaker
- D. Amazon Lightsail

Correct Answer: *A*

Reference:

<https://aws.amazon.com/getting-started/tutorials/get-a-domain/>**Question #457***Topic 1*

A corporation with headquarters in the us-east-1 Region and a satellite office in the eu-west-2 Region is located in the us-east-1 Region. Amazon WorkSpaces will be used to host the company's internal web portal and virtual desktops for workers.

What should the business do to decrease delay and guarantee that workers function optimally?

- 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***Question #458***Topic 1*

A business's workload is spread over the AWS Cloud and some on-premises systems.

Which architectural style is this?

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

Correct Answer: *C*

Reference:

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

Question #459

Topic 1

A cloud practitioner must have an efficient approach for reducing application latency and increasing end-user performance.

Which services will be beneficial? (Select 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

Reference:

<https://aws.amazon.com/blogs/database/latency-reduction-of-hybrid-architectures-with-amazon-elasticsearch/>

Question #460

Topic 1

Which AWS service should a cloud practitioner utilize to determine an AWS account's security vulnerabilities?

- A. AWS Secrets Manager
- B. Amazon Cognito
- C. Amazon Macie
- D. AWS Trusted Advisor

Correct Answer: D

Reference:

<https://www.coalfire.com/the-coalfire-blog/march-2019/aws-trusted-advisor-for-security-compliance>

Question #461*Topic 1*

Which features and advantages are included with the AWS Organizations service? (Select 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

Reference:

<https://aws.amazon.com/organizations/>**Question #462***Topic 1*

Which Amazon Web Services (AWS) offering should a business employ to break huge monolithic apps into smaller microservices components?

- A. AWS Direct Connect
- B. Amazon Lightsail
- C. Amazon Simple Queue Service (Amazon SQS)
- D. Amazon CloudWatch

Correct Answer: C**Question #463***Topic 1*

How can the AWS Cloud boost user labor productivity after a data center migration?

- 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

Reference:

<https://d1.awsstatic.com/whitepapers/Migration/aws-migration-whitepaper.pdf>**Question #464***Topic 1*

A business need an Amazon S3 bucket that cannot include any public objects in order to comply with regulatory obligations.

How is this possible?

- 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

Reference:

<https://docs.aws.amazon.com/AmazonS3/latest/dev/access-control-block-public-access.html>

Question #465*Topic 1*

Which of the following factors contribute to the total cost of ownership of an AWS Cloud workload? (Select two.)

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

Correct Answer: BD

Reference:

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

Question #466*Topic 1*

Which AWS Cloud service enables users to get notifications when their specified expenditure thresholds are exceeded?

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

Correct Answer: A**Question #467***Topic 1*

A business wishes to transfer a small website and database from on-premises infrastructure to the AWS Cloud in a timely manner. The company's operational expertise is insufficient to carry out the relocation.

Which AWS service is appropriate for this scenario?

- A. Amazon EC2
- B. Amazon Lightsail
- C. Amazon S3
- D. AWS Lambda

Correct Answer: C

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 #468*Topic 1*

Which Amazon Web Services service consolidates, organizes, and prioritizes security warnings and results from several Amazon Web Services services?

- A. Amazon Detective
- B. Amazon Inspector
- C. Amazon Macie
- D. AWS Security Hub

Correct Answer: D

Reference:

<https://aws.amazon.com/security-hub/?aws-security-hub-blogs.sort-by=item.additionalFields.createdDate&aws-security-hub-blogs.sort-order=desc>

Question #469**Topic 1**

A user must audit and review the configuration of all AWS resources on a regular basis, detect non-compliant accounts, and be alerted when a resource changes.

Which Amazon Web Services (AWS) offering may be utilized to fulfill these requirements?

- A. AWS Trusted Advisor
- B. AWS Config**
- C. AWS Resource Access Manager
- D. AWS Systems Manager

Correct Answer: B

Question #470**Topic 1**

Which service is ideal for storing the results of typical database queries, hence alleviating database access load?

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

Correct Answer: C

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-elasticache-for-redis/>

Question #471*Topic 1*

Which tool is used to anticipate Amazon Web Services (AWS) spending?

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

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/ce-forecast.html>**Question #472***Topic 1*

Which tool can be used to evaluate the expenses of operating a web application on AWS with a conventional hosting environment?

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

Correct Answer: D

Reference:

<https://aws.amazon.com/tco-calculator/>**Question #473***Topic 1*

To save money, a user must discover unused Amazon Elastic Block Store (Amazon EBS) volumes.

- Which Amazon Web Services (AWS) service or functionality will satisfy this requirement?
- A. AWS CloudTrail
 - B. AWS Budgets
 - C. AWS Trusted Advisor
 - D. AWS Personal Health Dashboard

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/whitepapers/latest/cost-optimization-storage-optimization/optimizing-amazon-ebs-storage.html>**Question #474***Topic 1*

A user has a stateful workload that will operate for the next three years on Amazon EC2.

Which price plan is the MOST cost-effective for this workload?

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

Correct Answer: A

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 #475*Topic 1*

Which Amazon Web Services (AWS) service or functionality can be utilized to protect against SQL injection attacks?

- A. Security groups
- B. Network ACLs
- C. AWS WAF
- D. IAM policy

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/waf/latest/developerguide/classic-web-acl-sql-conditions.html>**Question #476***Topic 1*

What information can assist a business in doing a cost-benefit analysis of shifting 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

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 #477***Topic 1*

Which approach enables developers to make AWS services available from inside their application code?

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

Correct Answer: A

Reference:

<https://aws.amazon.com/tools/>**Question #478***Topic 1*

Which AWS global infrastructure service is used to cache copies of information to enable quicker delivery to consumers worldwide?

- A. AWS Regions
- B. Availability Zones
- C. Edge locations
- D. Data centers

Correct Answer: C

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/>

Which catastrophe recovery scenario has the least downtime?

- A. Backup and restore
- B. Pilot light
- C. Warm standby
- D. Multi-site active-active

Correct Answer: D

- 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's 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/>

A business intends to store confidential data in an Amazon S3 bucket.

Which job falls within the purview 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

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-using-additional-aws-services/>

Question #481*Topic 1*

A business intends to store confidential data in an Amazon S3 bucket.

Which job falls within the purview 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.
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Reference:

<https://aws.amazon.com/blogs/security/strengthen-the-security-of-sensitive-data-stored-in-amazon-s3-by-using-additional-aws-services/>

Question #482*Topic 1*

Which Amazon Web Services (AWS) offering allows customers to replicate resources across AWS Regions?

- A. Amazon ElastiCache
- B. AWS CloudFormation
- C. AWS CloudTrail
- D. AWS Systems Manager

Correct Answer: B

Reference:

<https://aws.amazon.com/blogs/aws/use-cloudformation-stacksets-to-provision-resources-across-multiple-aws-accounts-and-regions/>

Question #483*Topic 1*

Which of the following approaches does AWS allow for securing Identity and Access Management (IAM) users? (Select 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**Question #484***Topic 1*

A retailer is tasked with the responsibility of developing a highly accessible architecture for a new ecommerce platform. The organization is using the only AWS offering that allows for data replication across various Availability Zones.

Which Amazon Web Offerings (AWS) services should the business employ to achieve this requirement? (Select two.)

- A. Amazon EC2
- B. Amazon Elastic Block Store (Amazon EBS)
- C. Amazon Aurora
- D. Amazon DynamoDB
- E. Amazon Redshift

Correct Answer: CD

Reference:

<https://aws.amazon.com/rds/features/multi-az/#:~:text=Amazon%20Aurora%20further%20extends%20the,ways%2C%20across%20three%20Availability%20Zones>

Question #485*Topic 1*

A multinational corporation is developing a straightforward time-tracking smartphone application. The application must be globally accessible and store gathered data in a database. The data must be available from the nearest AWS Region to the user.

What should the business do to ensure that these data storage needs are met with the LEAST amount of operational overhead possible?

- 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

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 #486*Topic 1*

A user wishes to encrypt data that AWS CloudTrail receives, stores, and manages.

Which Amazon Web Services (AWS) offering will give this capability?

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

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/awscloudtrail/latest/userguide/data-protection.html>

Question #487*Topic 1*

Which Amazon EC2 instance price model offers up to a 90% discount?

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

Correct Answer: D

Reference:

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

Question #488*Topic 1*

According to the AWS shared responsibility model, which of the following is the customer's duty for installing the latest security updates and patches?

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

Which of the following duties falls within the purview 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

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/>

A business must maintain records of any resource modifications made using the AWS Management Console or AWS APIs.

Which Amazon Web Services (AWS) offering should the business employ to achieve this requirement?

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

Correct Answer: B

Reference:

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

Question #491*Topic 1*

The capacity to grow Amazon EC2 instances horizontally in response to demand is an illustration of which idea in the AWS Cloud value proposition?

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

Correct Answer: B**Question #492***Topic 1*

Which AWS Support plan is the bare minimum that includes Infrastructure Event Management without extra charges?

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

Correct Answer: A**Question #493***Topic 1*

A business is transferring an application that will run non-stop workloads for three years.

Which pricing strategy would be the MOST cost-effective?

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

Correct Answer: D**Question #494***Topic 1*

Which AWS service enables the creation of inbound and outbound network access control lists (ACLs) for the purpose of hardening external connection to Amazon EC2?

- A. AWS IAM
- B. Amazon Connect
- C. Amazon VPC**
- D. Amazon API Gateway

Correct Answer: C

Reference:

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

Question #495*Topic 1*

What are the recommended practices for IAM when it comes to 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

Reference:

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

Question #496*Topic 1*

Which AWS services are capable of being scaled automatically with AWS Auto Scaling?
(Select two.)

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

Correct Answer: AB

Reference:

<https://aws.amazon.com/autoscaling/faqs/>**Question #497***Topic 1*

A business has various data sources scattered across the enterprise and want to combine them into a single data warehouse.

Which AWS service is appropriate for this requirement?

- A. Amazon DynamoDB
- B. Amazon Redshift
- C. Amazon Athena
- D. Amazon QuickSight

Correct Answer: B

Reference:

<https://aws.amazon.com/redshift/faqs/>**Question #498***Topic 1*

A business has several departments. Each department has its own Amazon Web Services (AWS) account.

Which AWS service or technology may be used to consolidate invoicing for all accounts into a single invoice?

- A. Amazon Forecast
- B. AWS Budgets
- C. AWS Organizations
- D. AWS Marketplace

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>**Question #499***Topic 1*

How can a user ensure high availability for an AWS-hosted web application?

- 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

Which job is an AWS responsibility while an Amazon RDS workload is running?

- A. Creating the database table
- B. Updating the database schema
- C. Installing the database engine
- D. Dropping the database records

Correct Answer: C

Question #501*Topic 1*

Which AWS service enables rapid and automatic account creation and management?

- A. AWS QuickSight
- B. Amazon Lightsail
- C. AWS Organizations
- D. Amazon Connect

Correct Answer: C

Reference:

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

Question #502*Topic 1*

A business wants to transfer a MySQL database to AWS but lacks the funding to hire Database Administrators to undertake basic duties such as provisioning, patching, and backups.

Which AWS service is appropriate for this scenario?

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon DocumentDB
- D. Amazon ElastiCache

Correct Answer: A

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 #503*Topic 1*

A business wants to store data with high availability, encrypt it at rest, and have direct internet access to it.

Which AWS service would best match these objectives in terms of cost?

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

Correct Answer: B

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 KMS, 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 #504*Topic 1*

Which design principles enable the AWS Cloud to optimize workload performance? (Select two.)

- A. Minimize upfront design
- B. Loose coupling
- C. Disposable resources
- D. Server design and concurrency
- E. Minimal viable product

Correct Answer: BC

Question #505*Topic 1*

A business has an AWS environment that comprises of a virtual private cloud (VPC), various subnets, and a large number of Amazon EC2 instances inside the subnets. An engineer wants to limit incoming traffic to a single EC2 instance while leaving other EC2 instances unaffected. Which AWS service or functionality should the developer use to accomplish this task?

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

Correct Answer: A

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/ec2-block-or-allow-ips/>**Question #506***Topic 1*

What are the commercial benefits of running workloads on AWS? (Select 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

Reference:

https://pages.awscloud.com/rs/112-TZM-766/images/GEN_windows-on-aws-it-staff-productivity-idc-mini-report_Sep-2019.pdf**Question #507***Topic 1*

Which AWS service or feature assists in restricting which AWS services, resources, and particular API activities each member account's users and roles may access?

- A. Amazon Cognito
- B. AWS Organizations
- C. AWS Shield
- D. AWS Firewall Manager

Correct Answer: B

Reference:

https://docs.aws.amazon.com/organizations/latest/userguide/orgs_introduction.html**Question #508***Topic 1*

A business wishes to migrate its data center to the Amazon Web Services (AWS) Cloud. Technology executives must prepare a business case that details the most cost-effective deployment and procurement strategies.

Which AWS service or functionality provides the LEAST amount of operational overhead for this task?

- A. AWS Migration Evaluator
- B. AWS Application Discovery Service
- C. AWS Migration Hub
- D. AWS Server Migration Service (AWS SMS)

Correct Answer: A

Reference:

<https://aws.amazon.com/migration-evaluator/>

Question #509*Topic 1*

Which of the following contributes to the identification of departmental costs? (Select 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

Question #510*Topic 1*

Which AWS Trusted Advisor function is accessible to AWS Business Support or AWS Enterprise Support customers only?

- A. Notification setup
- B. Refresh checks
- C. AWS Support API**
- D. Action links

Correct Answer: C

Reference:

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

Question #511*Topic 1*

A business wishes to split its incoming traffic amongst numerous Amazon EC2 instances.

Which Amazon Web Services (AWS) service or functionality should be employed to fulfill 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

Reference:

<https://docs.aws.amazon.com/elasticloadbalancing/latest/application/introduction.html>**Question #512***Topic 1*

Which AWS services or capabilities allow customers to connect their on-premises networks to a virtual private cloud (VPC)? (Select two.)

- A. AWS VPN**
- B. Elastic Load Balancing
- C. AWS Direct Connect
- D. VPC peering
- E. Amazon CloudFront

Correct Answer: AD

Reference:

<https://aws.amazon.com/vpn/faqs/>**Question #513***Topic 1*

A business maintains a MySQL database on a single Amazon EC2 instance. The business now demands a greater level of availability in the event of a failure.

Which collection of tasks would satisfy this criterion?

- 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

Reference:

<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.MultiAZ.html>**Question #514***Topic 1*

What are the benefits of adopting the AWS Cloud versus an 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

Reference:

<https://data-flair.training/blogs/aws-advantages/>

Question #515*Topic 1*

A cloud practitioner need an Amazon EC2 instance that can be launched and operate uninterrupted for seven hours.

Which choice is the most appropriate and cost-effective for this task?

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

Correct Answer: D

Reference:

<https://aws.amazon.com/ec2/spot/details/>**Question #516***Topic 1*

A web developer is apprehensive that a DDoS attack might be launched against his application. Which AWS services or features can assist defend you from a cyber-attack like this? (Select two.)

- A. AWS Shield**
- B. AWS CloudTrail**
- C. Amazon CloudFront
- D. AWS Support Center
- E. AWS Service Health Dashboard

Correct Answer: AB

Reference:

<https://aws.amazon.com/shield/>**Question #517***Topic 1*

Which of the following is not an AWS recommended practice for managing the root user of an AWS account?

- 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

Reference:

<https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html>**Question #518***Topic 1*

Which AWS storage solution is optimized for transferring petabytes of data between the cloud and on-premises?

- A. AWS Storage Gateway
- B. Amazon S3 Glacier Deep Archive
- C. Amazon Lightsail
- D. AWS Snowball**

Correct Answer: D

Reference:

<https://docs.aws.amazon.com/snowball/latest/ug/transfer-petabytes.html>

Question #519*Topic 1*

Call recordings made to a bank's contact center must be kept for six years. The recordings must be available within 48 hours of the request being made.

Which AWS service will offer a secure and cost-effective way to keep these files?

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

Correct Answer: C

Reference:

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

Question #520*Topic 1*

According to the AWS shared responsibility model, who is responsible for scheduling and conducting backups when using Amazon RDS?

- 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

Question #521*Topic 1*

Which AWS team aids clients with cloud adoption acceleration via paid engagements in one of many specialist practice areas?

- A. AWS Enterprise Support
- B. AWS Solutions Architects
- C. AWS Professional Services
- D. AWS Account Managers

Correct Answer: C

Reference:

<https://aws.amazon.com/professional-services/>**Question #522***Topic 1*

A financial services business want to verify that every activity on its AWS account is tracked in order to comply with regulatory obligations for logging, audits, and governance.

Which AWS service satisfies these criteria?

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

Correct Answer: A

Reference:

<https://docs.aws.amazon.com/awscloudtrail/latest/userguide/cloudtrail-user-guide.html>**Question #523***Topic 1*

A business requires a content delivery network capable of securely delivering data, videos, apps, and APIs to users worldwide with a minimum of latency and a maximum of transfer speed.

Which AWS service satisfies these criteria?

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

Correct Answer: A

Reference:

<https://aws.amazon.com/cloudfront/>**Question #524***Topic 1*

Which auditing procedure is AWS solely responsible for?

- A. AWS IAM policies
- B. Physical security
- C. Amazon S3 bucket policies
- D. AWS CloudTrail Logs

Correct Answer: B

Question #525*Topic 1*

A business wants to transition to AWS and continue using the same security software it now employs on-premises. On AWS, the security software company makes its security software available as a service.

Where can a business get a security solution?

- A. AWS Partner Solutions Finder
- B. AWS Support Center
- C. AWS Management Console
- D. AWS Marketplace

Correct Answer: D

Reference:

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

Question #526*Topic 1*

Which AWS services should be utilized for read/write operations on data that is continually changing? (Select two.)

- A. Amazon Glacier
- B. Amazon RDS
- C. AWS Snowball
- D. Amazon Redshift
- E. Amazon EFS

Correct Answer: BE

Question #527*Topic 1*

Which AWS hybrid storage option allows you to effortlessly integrate on-premises applications with AWS Cloud storage through conventional file-storage protocols?

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

Correct Answer: C

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 #528*Topic 1*

Which managed Amazon Web Services (AWS) solution gives real-time assistance on Amazon Web Services (AWS) security best practices?

- A. AWS X-Ray
- B. AWS Trusted Advisor
- C. Amazon CloudWatch
- D. AWS Systems Manager

Correct Answer: B

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>

Which Amazon Web Services (AWS) services are available for migrating data from on-premises data centers to AWS? (Select two.)

- A. AWS Snowball
- B. AWS Lambda
- C. Amazon ElastiCache
- D. AWS Database Migration Service (AWS DMS)
- E. Amazon API Gateway

Correct Answer: AD

Reference:

<https://aws.amazon.com/snowball/>

Which component must be added to a virtual private cloud (VPC) in order to permit inbound Internet access?

- A. NAT gateway
- B. VPC endpoint
- C. VPN connection
- D. Internet gateway

Correct Answer: C

Reference:

[\(41, 42, 43\)](https://d1.awsstatic.com/whitepapers/aws-security-whitepaper.pdf)

Question #531*Topic 1*

Unauthorized users are believed to have copied data from an Amazon S3 bucket to their own account.

Which AWS service will keep track of the user's actions?

- A. Amazon CloudWatch
- B. AWS CloudTrail**
- C. AWS Infrastructure Event Management
- D. AWS Systems Manager

Correct Answer: *B*

Reference:

<https://docs.aws.amazon.com/AmazonS3/latest/userguide/security-best-practices.html>

Question #532*Topic 1*

Example Corp. was recently purchased by AnyCompany. Both companies use AWS resources, and AnyCompany would like a single charge that includes everything.

Which of the following options enables AnyCompany to get 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*

Reference:

<https://docs.aws.amazon.com/awsbilling/latest/aboutv2/awsbilling-aboutv2.pdf>

Question #533*Topic 1*

Why should a business use AWS rather than a conventional 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*

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 #534*Topic 1*

According to a company's traffic records, AWS-owned IP addresses are being utilized to try to flood ports on system resources.

Whom should the cloud practitioner contact in order to 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*

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>

Question #535**Topic 1**

A firm's key business data must be stored on Amazon S3 with a backup in another AWS Region.

How is this accomplished?

- 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 the data to another AWS Region
- D. Take Amazon S3 bucket snapshots and copy that data to another AWS Region

Correct Answer: B

Question #536**Topic 1**

Which of the following characteristics of the Amazon Virtual Private Cloud (Amazon VPC) may be adjusted through the Amazon Virtual Private Cloud (Amazon VPC) Dashboard? (Select two.)

- A. Amazon CloudFront distributions
- B. Amazon Route 53
- C. Security Groups
- D. Subnets
- E. Elastic Load Balancing

Correct Answer: CD

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 #537**Topic 1**

Which of the following services is the customer's responsibility for system setup, security patching, and networking?

- A. Amazon RDS
- B. Amazon EC2
- C. Amazon ElastiCache
- D. AWS Fargate

Correct Answer: B

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 #538**Topic 1**

A business is migrating from an on-premises data center to the Amazon Web Services (AWS) Cloud.

What would be the single financial impact of 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

Which AWS Cloud services are compatible with hybrid AWS Cloud architectures? (Select two.)

- A. Amazon Route 53
- B. Virtual Private Gateway**
- C. Classic Load Balancer
- D. Auto Scaling
- E. Amazon CloudWatch default metrics

Correct Answer: AB

Reference:

<https://www.stratoscale.com/blog/cloud/building-hybrid-cloud-environment-using-amazon-cloud/>

Which of the following services would be appropriate for deploying an application to on-premises servers? (Select two.)

- A. AWS Elastic Beanstalk
- B. AWS OpsWorks**
- C. AWS CodeDeploy**
- D. AWS Batch
- E. AWS X-Ray

Correct Answer: BC

Reference:

<https://docs.aws.amazon.com/codedeploy/latest/userguide/instances-on-premises.html>
<https://aws.amazon.com/blogs/aws/opsworks-on-prem-and-existing-instances/>

Question #541*Topic 1*

Which of the following is a duty of the client while utilizing 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

Reference:

<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/UsingWithRDS.html>**Question #542***Topic 1*

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

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

Correct Answer: AD

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 #543***Topic 1*

Which Amazon Web Services (AWS) services are capable of hosting a Microsoft SQL Server database? (Select two.)

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

Correct Answer: AB

Reference:

<https://aws.amazon.com/sql/>**Question #544***Topic 1*

A solutions architect must develop a cost estimate for AWS workloads. After that, the cost estimate must be forwarded to management for assessment.

Which Amazon Web Services (AWS) service or functionality should be utilized to complete these tasks?

- A. Cost Explorer
- B. Amazon QuickSight
- C. AWS Pricing Calculator
- D. AWS Budgets

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/pricing-calculator/latest/userguide/aws-pc.pdf>

Question #545**Topic 1**

A director has been assigned the duty of conducting an investigation into hybrid cloud architecture. Currently, the firm connects to AWS through the public internet.

Which service is responsible for enabling 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

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 #546**Topic 1**

Which AWS service enables automated scaling up and down of an application without requiring capacity planning decisions?

- A. Amazon AutoScaling
- B. Amazon Redshift
- C. AWS CloudTrail
- D. AWS Lambda**

Correct Answer: D

Reference:

<https://aws.amazon.com/blogs/aws/category/auto-scaling/>

Question #547**Topic 1**

A user may improve operational efficiency in the AWS Cloud by doing the following actions:

- 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

Reference:

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

Question #548**Topic 1**

Which way of transcoding a large number of individual video files complies to the principles of AWS architecture?

- 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

Reference:

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

Which sorts of load balancers are supported by Elastic Load Balancing (ELB)? (Select 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

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>

Which of the following inspects Amazon Web Services environments for possibilities to save consumers money while simultaneously improving system performance?

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

Correct Answer: B

Question #551*Topic 1*

Which AWS service should be utilized to transfer an organization's MySQL database from on-premises 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

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/migrate-mysql-rds-dms/>**Question #552***Topic 1*

Which rules serve as the foundation for AWS's architectural design principles? (Select 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

Reference:

<https://www.botmetric.com/blog/aws-cloud-architecture-design-principles/>**Question #553***Topic 1*

When is it advantageous for a business to employ 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

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 #554***Topic 1*

Which of the following is a benefit of using Amazon Web Services?

- 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

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 #555*Topic 1*

How might consolidation of billing inside AWS Organizations assist in lowering monthly operating 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

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/con-bill-blended-rates.html>**Question #556***Topic 1*

Which of the following services allows you to view AWS compliance reports on-demand?

- A. AWS IAM
- B. AWS Artifact
- C. Amazon GuardDuty
- D. AWS KMS

Correct Answer: B

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 #557***Topic 1*

What is the least expensive, most durable method of storing database backups for instant retrieval?

- A. Amazon S3
- B. Amazon Glacier
- C. Amazon EBS
- D. Amazon EC2 Instance Store

Correct Answer: A**Question #558***Topic 1*

Which AWS services may be used to link an on-premises network to a VPC? (Select two.)

- A. Amazon Route 53
- B. AWS Direct Connect
- C. AWS Data Pipeline
- D. AWS VPN
- E. Amazon Connect

Correct Answer: BD

Reference:

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

Question #559*Topic 1*

Which AWS service will enable the generation of encryption keys for use in encrypting data?
(Select 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

Reference:

<https://docs.aws.amazon.com/crypto/latest/userguide/awscrypt-service-hsm.html>
<https://docs.aws.amazon.com/kms/latest/developerguide/overview.html>

Question #560*Topic 1*

Which of the following options enables single sign-on (SSO) to the AWS Console for a customer?

- A. Amazon Connect
- B. AWS Directory Service
- C. Amazon Pinpoint
- D. Amazon Rekognition

Correct Answer: B

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 #561*Topic 1*

A business that utilizes AWS Enterprise Support has concerns regarding their consolidated bill.

Which AWS service, feature, or tool should be used to aid the business?

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

Correct Answer: B

Reference:

<https://aws.amazon.com/premiumsupport/faqs/>**Question #562***Topic 1*

A security officer requests a list of any probable Amazon EC2 security group vulnerabilities.

Which Amazon Web Services (AWS) service should the officer use?

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

Correct Answer: B

Reference:

<https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>**Question #563***Topic 1*

A security officer wants to allow IPsec communications so that users from on-premises networks may safely connect to AWS.

Which Amazon Web Services (AWS) service or functionality should the officer utilize?

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

Correct Answer: B

Reference:

<https://aws.amazon.com/vpn/faqs/>**Question #564***Topic 1*

Which pricing model for Amazon EC2 should be utilized to adhere to per-core software licensing requirements?

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

Correct Answer: A

Reference:

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

Question #565*Topic 1*

Which AWS managed service is best suited for traffic distribution across several Amazon EC2 instances?

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

Correct Answer: *B***Question #566***Topic 1*

Which of the following statements is true about the economic advantages of using AWS Cloud?
(Select 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***Question #567***Topic 1*

Which AWS service enables a client to configure an alert notice when the account's balance approaches a certain dollar amount?

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

Correct Answer: *B*

Reference:

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

Question #568*Topic 1*

In AWS Identity and Access Management (IAM), access keys 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*

Reference:

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

A business need cost-effective storage for static content and an endlessly scalable data storage infrastructure.

Which AWS service should the business select?

- A. Amazon Elastic Block Store (Amazon EBS)
- B. Amazon S3**
- C. AWS Storage Gateway
- D. Amazon Elastic File System (Amazon EFS)

Correct Answer: B

Reference:

<https://aws.amazon.com/s3/faqs/>

Which of the following is a fundamental guideline to follow while developing a highly available application for 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

Question #571*Topic 1*

Which Amazon Web Services (AWS) service or functionality enables users to set up consolidated billing?

- A. AWS Billing Management Console
- B. AWS Organizations**
- C. AWS Cost and Usage Report
- D. AWS Systems Manager

Correct Answer: *B*

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>**Question #572***Topic 1*

A business needs a firewall to regulate network traffic to and from a single Amazon EC2 instance. This firewall will not regulate network traffic to or from other instances on the same subnet.

Which Amazon Web Services (AWS) service or functionality can the business employ to achieve these requirements?

- A. Network ACL
- B. AWS WAF
- C. Route table
- D. Security group**

Correct Answer: *D*

Reference:

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_SecurityGroups.html**Question #573***Topic 1*

A client is in the process of installing a new application and is required to choose an AWS Region.

Which of the following elements could have an effect on the customer's choice? (Select 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***Question #574***Topic 1*

Which of the following may be used to define AWS Cloud infrastructure as code?

- A. AWS CLI
- B. AWS CloudFormation**
- C. AWS CodeDeploy
- D. AWS Amplify

Correct Answer: *B*

Reference:

<https://containersonaws.com/introduction/infrastructure-as-code/#:~:text=Infrastructure%20as%20code%20is%20the,as%20code%20is%20AWS%20CloudFormation>

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Question #575*Topic 1*

Which architectural idea encapsulates the capacity to rapidly deploy resources and then release them when they are no longer required?

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

Correct Answer: D

Reference:

<https://wa.aws.amazon.com/wat.concept.elasticity.en.html>**Question #576***Topic 1*

Which AWS service is responsible for capacity provisioning, load balancing, Auto Scaling, and application health monitoring throughout the deployment process?

- A. AWS Config
- B. AWS Elastic Beanstalk
- C. Amazon Route 53
- D. Amazon CloudFront

Correct Answer: B

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 #577***Topic 1*

Which cloud architecture concept is most consistent 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

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 #578***Topic 1*

Which of the following are AWS-managed user authentication services? (Select two.)

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

Correct Answer: AD

Reference:

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

Question #579*Topic 1*

What methods are there for lowering the cost of operating Amazon EC2 instances? (Select 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

Question #580*Topic 1*

A business makes use of a database that includes a simple sign-up page for creating users and a basic login form for authenticating users and granting them access to the database. The firm want to enable users to save personal information, but user access must be more safe and trustworthy.

Which Amazon Web Services (AWS) service or functionality will satisfy these requirements?

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

Correct Answer: A

Question #581**Topic 1**

AWS-hosted web application was flooded with malicious requests from a repeating group of IP addresses.

Which Amazon Web Services (AWS) service can assist in securing the application and blocking malicious traffic?

- A. AWS IAM
- B. Amazon GuardDuty
- C. Amazon Simple Notification Service (Amazon SNS)
- D. AWS WAF

Correct Answer: D

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 #582**Topic 1**

Which AWS service would a client employ in conjunction with a static website to get the lowest possible latency and the fastest possible transfer speeds?

- A. AWS Lambda
- B. Amazon DynamoDB Accelerator
- C. Amazon Route 53
- D. Amazon CloudFront

Correct Answer: D

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 in 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 #583**Topic 1**

Which of the following is a principle of cloud architecture design?

- A. Scale up, not out.
- B. Loosely couple components.
- C. Build monolithic systems.
- D. Use commercial database software.

Correct Answer: B

Loosely coupled architectures reduce interdependencies, so that a change or failure in a component does not cascade to other components.

Reference:

https://aws-certified-cloud-practitioner.fandom.com/wiki/1.3_List_the_different_cloud_architecture_design_principles

Question #584**Topic 1**

Which Amazon EC2 pricing plan provides the MOST substantial reduction over 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

Reference:

<https://aws.amazon.com/ec2/pricing/reserved-instances/>

Question #585**Topic 1**

What role do security groups play in ensuring the security of Amazon Elastic Compute Cloud (Amazon EC2) instances?

- 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

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 #586**Topic 1**

Which advantages does Amazon RDS have over Amazon EC2 when it comes to operating relational databases on AWS? (Select two.)

- A. Automated backups
- B. Schema management
- C. Indexing of tables
- D. Software patching
- E. Extract, transform, and load (ETL) management

Correct Answer: AD

Reference:

<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Welcome.html>

Question #587**Topic 1**

Where should users report instances of AWS resources being utilized maliciously?

- A. AWS Abuse team
- B. AWS Shield
- C. AWS Support
- D. AWS Developer Forums

Correct Answer: A

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>

Question #588**Topic 1**

A user subscribes to an AWS Business Support subscription and demands comprehensive billing information.

Which AWS resource will be of assistance?

- A. AWS Concierge Support
- B. AWS Service Catalog
- C. AWS Budgets
- D. AWS Cost and Usage Report

Correct Answer: A

Reference:

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

Question #589

Topic 1

Which Amazon Web Services (AWS) offering enables customers to track the changes made to a resource over time?

- A. Amazon Inspector
- B. AWS Config**
- C. AWS Service Catalog
- D. AWS IAM

Correct Answer: *B*

Reference:

<https://docs.aws.amazon.com/config/latest/developerguide/view-manage-resource.html>

Question #590

Topic 1

A business is seeking a method for encrypting data stored on Amazon S3.

Which AWS managed service can assist with 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*

Reference:

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

Question #591*Topic 1*

Which Amazon Web Services offering allows customers to access securely to AWS resources through the public internet?

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

Correct Answer: C

Reference:

<https://d1.awsstatic.com/whitepapers/aws-security-whitepaper.pdf>
(36)

Question #592*Topic 1*

Which Amazon Web Services (AWS) service may be used to monitor resource changes and ensure compliance?

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

Correct Answer: B

Reference:

<https://docs.aws.amazon.com/config/latest/developerguide/evaluate-config.html>

Question #593*Topic 1*

Which of the following is an Amazon Web Services compute service? (Select two.)

- A. Amazon Lightsail
- B. AWS Systems Manager
- C. AWS CloudFormation
- D. AWS Batch
- E. Amazon Inspector

Correct Answer: AD

Reference:

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

Question #594*Topic 1*

Which Amazon Web Services (AWS) services use global edge locations? (Select two.)

- A. AWS Fargate
- B. Amazon CloudFront
- C. AWS Global Accelerator
- D. AWS Wavelength
- E. Amazon VPC

Correct Answer: BC

Reference:

<https://www.lastweekinaws.com/blog/what-is-an-edge-location-in-aws-a-simple-explanation/#:~:text=CloudFront%20is%20the%20most%20commonly,caches%20content%20in%20edge%20locations>

Question #595**Topic 1**

What is Amazon Web Services 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

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 #596**Topic 1**

Previously, a business lost data kept in an on-premises data center. To guard against future data loss, the firm intends to utilize AWS to automatically provide thousands of its computers in a fully provisioned state in minutes, in a format compatible with data restoration.

Which Amazon Web Services (AWS) offering should the business employ to achieve these requirements?

- A. AWS Direct Connect
- B. AWS Storage Gateway
- C. CloudEndure Disaster Recovery
- D. AWS Backup

Correct Answer: C

Reference:

[\(35\)](https://docs.aws.amazon.com/prescriptive-guidance/latest/backup-recovery/backup-recovery.pdf)

Question #597**Topic 1**

How do I go about requesting 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**Question #598****Topic 1**

Which AWS service enables on-demand compliance report retrieval?

- A. AWS Secrets Manager
- B. AWS Artifact
- C. AWS Security Hub
- D. AWS Certificate Manager

Correct Answer: B

Reference:

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

Question #599**Topic 1**

Which network security features does Amazon VPC support? (Select two.)

- A. Network ACLs
- B. Internet gateways
- C. VPC peering
- D. Security groups
- E. Firewall rules

Correct Answer: AD

Reference:

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

Which of the following is an AWS Global Infrastructure component?

- A. Amazon Alexa
- B. AWS Regions**
- C. Amazon Lightsail
- D. AWS Organizations

Correct Answer: *B*

Reference:

<https://aws.amazon.com/about-aws/global-infrastructure/>

Question #601*Topic 1*

A network engineer is tasked with the responsibility of establishing a dedicated 10 Gbps network connection between an on-premises system and AWS.

Which Amazon Web Services (AWS) function or feature should the engineer utilize?

- A. Amazon Route 53
- B. AWS Direct Connect**
- C. AWS PrivateLink
- D. AWS VPN

Correct Answer: B

AWS Direct Connect can create a dedicated network connection between your premises and AWS.

Reference:

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

Question #602*Topic 1*

Which service offers a hybrid storage solution that allows on-premises applications to use cloud storage in a seamless manner?

- A. Amazon Glacier
- B. AWS Snowball
- C. AWS Storage Gateway**
- D. Amazon Elastic Block Storage (Amazon EBS)

Correct Answer: C

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&whats-new-cards.sort-order=desc>

Question #603*Topic 1*

A business want to implement a new architecture using AWS services. The business must compare service charges on a variety of scales.

Which AWS service, tool, or feature should the business utilize to accomplish this task?

- A. AWS Compute Optimizer
- B. AWS Pricing Calculator**
- C. AWS Trusted Advisor
- D. Cost Explorer rightsizing recommendations

Correct Answer: B

Reference:

<https://calculator.s3.amazonaws.com/index.html>

Question #604*Topic 1*

Which security-related tasks are the customer's responsibility 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

Reference:

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

Question #605*Topic 1*

What databases are supported by Amazon RDS? (Select two.)

- A. Sybase
- B. Microsoft SQL Server
- C. IBM Db2
- D. MongoDB
- E. PostgreSQL

Correct Answer: DE

Reference:

<https://aws.amazon.com/rds/>**Question #606***Topic 1*

A firm with AWS Enterprise Support is looking for assistance in deciphering its monthly AWS bill and implementing billing best practices.

Which AWS tool or resource is appropriate for achieving these objectives?

- A. Resource tagging
- B. AWS Concierge Support team
- C. AWS Abuse team
- D. AWS Support

Correct Answer: D

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/awsaccountbilling-aboutv2.pdf>**Question #607***Topic 1*

Which AWS service can assist a business in determining who removed an Amazon EC2 instance yesterday?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/cloudtrail/>**Question #608***Topic 1*

What are the advantages of using the AWS Cloud for businesses with clients in many countries? (Select 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

Reference:

<https://aws.amazon.com/comprehend/features/><https://aws.amazon.com/cloudfront/>

What protection does AWS Shield Standard offer?

- A. WAF rules
- B. DDoS protection**
- C. Identity and Access Management (IAM) permissions and access to resources
- D. Data encryption

Correct Answer: *B*

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/>

By treating infrastructure in the AWS Cloud as code, customers can:

- 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*

Reference:

<https://asperbrothers.com/blog/infrastructure-as-code-aws/>

Question #611**Topic 1**

Which of the following is not a component of Amazon Virtual Private Cloud? (Select two.)

- A. Objects
- B. Subnets
- C. Buckets
- D. Internet gateways
- E. Access key

Correct Answer: BD

Reference:

https://subscription.packtpub.com/book/virtualization_and_cloud/9781788293723/3/ch03M1sec26/vpc-components

Question #612**Topic 1**

Which of the following allows you to share the cost savings associated with Reserved Instances across several 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

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 #613**Topic 1**

How does AWS's global infrastructure ensure its consumers' high availability and fault tolerance?

- 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

Reference:

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

Question #614**Topic 1**

Which AWS billing support resource is accessible to all levels of assistance?

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

Correct Answer: B

Reference:

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

Question #615*Topic 1*

Which AWS service or component enables internet-bound traffic to reach a VPC?

- A. Internet gateway
- B. NAT gateway
- C. AWS WAF
- D. VPC peering

Correct Answer: A

Reference:

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html**Question #616***Topic 1*

How can an AWS customer with an AWS Basic Support package get AWS technical support?

- A. AWS Senior Support Engineers
- B. AWS Technical Account Managers
- C. AWS Trusted Advisor
- D. AWS Discussion Forums

Correct Answer: D

Reference:

<https://aws.amazon.com/premiumsupport/faqs/>**Question #617***Topic 1*

Which of the following are customer obligations in the AWS Cloud? (Select 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

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/>**Question #618***Topic 1*

Which of the following statements accurately represents the relationships between Amazon Web Services' regions, availability zones, and edge locations? (Select 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

A Cloud Practitioner is asked how to estimate the cost of deploying a new application on Amazon Web Services (AWS).

Which reaction is the MOST APPROPRIATE?

- 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

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/estimating-aws-resource-costs/>

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

- 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

Question #621*Topic 1*

A Cloud Practitioner is putting up a disaster recovery strategy and aims to replicate data across different geographic locations.

Which of the following satisfies these criteria?

- A. AWS Accounts
- B. AWS Regions**
- C. Availability Zones
- D. Edge locations

Correct Answer: *B*

Reference:

<https://www.botmetric.com/blog/having-a-disaster-recovery-plan-is-pivotal-the-dos-and-donts-on-aws-cloud/>

Question #622*Topic 1*

What is the benefit of utilizing third-party software from the AWS Marketplace rather than installing it on Amazon EC2? (Select 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*

Reference:

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

Question #623*Topic 1*

Which of the following Amazon Web Services (AWS) services offers computing resources? (Select two.)

- A. AWS Lambda
- B. Amazon Elastic Container Service (Amazon ECS)**
- C. AWS CodeDeploy
- D. Amazon Glacier
- E. AWS Organizations

Correct Answer: *AB*

Reference:

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

Question #624*Topic 1*

Which of the following is a critical architectural concept for cloud application design?

- 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*

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 #625*Topic 1*

Recently, an online retailer implemented a production web application. The system administrator is responsible for preventing typical attack vectors such as SQL injection and cross-site scripting.

Which Amazon Web Services (AWS) service should the administrator utilize to resolve these issues?

- A. AWS WAF
- B. Amazon VPC
- C. Amazon GuardDuty
- D. Amazon CloudWatch

Correct Answer: A

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/waf-block-common-attacks/>**Question #626***Topic 1*

A distinguishing feature 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

Reference:

<https://www.edureka.co/community/600/what-is-an-edge-location-in-aws>**Question #627***Topic 1*

To get assistance with billing or to reinstate a suspended account, a user should send 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

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/reactivate-suspended-account/>**Question #628***Topic 1*

Which Amazon Web Services (AWS) offering provides a highly available, scalable DNS web service?

- A. Amazon VPC
- B. Amazon CloudFront
- C. Amazon Route 53
- D. Amazon Connect

Correct Answer: C

Reference:

<https://aws.amazon.com/route53/>

On AWS, a business must plan, schedule, and execute hundreds of thousands of computing tasks.

Which AWS service might be used to fulfill this requirement?

- A. AWS Step Functions
- B. AWS Service Catalog
- C. Amazon Simple Queue Service (Amazon SQS)
- D. AWS Batch

Correct Answer: D

Reference:

<https://aws.amazon.com/batch/>

Which AWS service is capable of encrypting data in transit?

- A. Amazon GuardDuty
- B. AWS Shield
- C. AWS Security Hub
- D. AWS Key Management Service (AWS KMS)

Correct Answer: D

Reference:

<https://aws.amazon.com/blogs/security/how-to-protect-data-at-rest-with-amazon-ec2-instance-store-encryption/>

Question #631**Topic 1**

Which AWS service enables customers to comply with contractual and regulatory data security obligations by using dedicated hardware appliances inside the AWS Cloud?

- A. AWS Secrets Manager
- B. AWS CloudHSM**
- C. AWS Key Management Service (AWS KMS)
- D. AWS Directory Service

Correct Answer: B

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 #632**Topic 1**

Which of the following are AWS shared responsibility model customer responsibilities? (Select 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**Question #633****Topic 1**

A business is in the market for a scalable data warehouse solution.

Which of the following AWS options would be most appropriate for your business?

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

Correct Answer: D

Reference:

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

Question #634**Topic 1**

Which of the following are AWS Global Accelerator's benefits? (Select 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

Reference:

<https://aws.amazon.com/global-accelerator/faqs/>

Question #635*Topic 1*

Which of the following is an Amazon CloudWatch Logs feature? (Select 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**Question #636***Topic 1*

Which of the following AWS services may be used to administer a database independently?

- A. Amazon Route 53
- B. AWS X-Ray
- C. AWS Snowmobile
- D. Amazon Elastic Compute Cloud (Amazon EC2)

Correct Answer: D

Reference:

<https://severalnines.com/news/aws-users-prefer-self-managed-databases>**Question #637***Topic 1*

A user requires rapid deployment of a non-relational database on AWS. The user is not interested in administering the underlying hardware or database software.

Which AWS service is appropriate for this?

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

Correct Answer: B

Reference:

<https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/SQLtoNoSQL.html>**Question #638***Topic 1*

Where can I obtain AWS compliance and certification reports?

- A. AWS Artifact
- B. AWS Concierge
- C. AWS Certificate Manager
- D. AWS Trusted Advisor

Correct Answer: A

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/>

Which AWS service enables the safe, rapid, and economical migration or transit of exabyte-scale datasets into AWS?

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

Correct Answer: D

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/>

A company is transferring its development and test environments to AWS to increase agility and cost savings. Given that these are not production workloads and the servers are not fully used, some downtime is to be anticipated.

Which Amazon EC2 price plan is the MOST cost-effective in order to achieve these requirements?

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

Correct Answer: C

Question #641*Topic 1*

A firm is developing a business intelligence system and wants to include dashboards into the reporting process.

Which Amazon Web Services (AWS) service may be used?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/getting-started/hands-on/create-business-intelligence-dashboards-using-amazon-quicksight/>

Question #642*Topic 1*

A user requires an automated security assessment report that identifies unauthorized network access to Amazon EC2 instances and their associated issues.

Which AWS service will be responsible for generating this evaluation report?

- A. EC2 security groups
- B. AWS Config
- C. Amazon Macie
- D. Amazon Inspector

Correct Answer: D

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 #643*Topic 1*

Utilizing Amazon Elastic Container Service (Amazon ECS) to deconstruct a monolithic design into microservices demonstrates the following:

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

Correct Answer: A

Reference:

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

Question #644*Topic 1*

Which security service on AWS detects and categorizes sensitive data or intellectual property automatically?

- A. Amazon GuardDuty
- B. Amazon Macie
- C. Amazon Inspector
- D. AWS Shield

Correct Answer: B

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 #645*Topic 1*

How can a business separate the expenses of production and non-production workloads on Amazon Web Services (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*

Reference:

<https://aws.amazon.com/answers/account-management/aws-multi-account-billing-strategy/>**Question #646***Topic 1*

What services does Amazon CloudFront offer?

- 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*

Reference:

<https://aws.amazon.com/cloudfront/#:~:text=Amazon%20CloudFront%20is%20a%20fast,within%20a%20developer%2Dfriendly%20environment>**Question #647***Topic 1*

Who is responsible for patching the Amazon RDS guest operating system?

- A. The AWS Product team**
- B. The customer Database Administrator
- C. Managed partners
- D. AWS Support

Correct Answer: *A*

Reference:

<https://aws.amazon.com/compliance/shared-responsibility-model/>**Question #648***Topic 1*

What are some of the benefits of Reserved Instances? (Select 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*

Reference:

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

Question #649**Topic 1**

Which Amazon Web Services (AWS) offering allows customers to deploy infrastructure as code by automating the provisioning process?

- A. Amazon GameLift
- B. AWS CloudFormation**
- C. AWS Data Pipeline
- D. AWS Glue

Correct Answer: B

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 #650**Topic 1**

Which Amazon VPC feature allows users to monitor IP traffic to and from Amazon EC2 instances?

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

Correct Answer: D

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 #651*Topic 1*

Among the benefits of migrating infrastructure from an on-premises data center to the AWS Cloud include the following:

- 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**Question #652***Topic 1*

Which AWS service simplifies the process of creating and managing AWS users and groups, as well as providing them with free secure access to AWS resources?

- A. AWS Direct Connect
- B. Amazon Connect
- C. AWS Identity and Access Management (IAM)
- D. AWS Firewall Manager

Correct Answer: C

Reference:

https://docs.aws.amazon.com/IAM/latest/UserGuide/console_controlling-access.html
<https://aws.amazon.com/iam/>

Question #653*Topic 1*

A corporation has numerous AWS accounts inside AWS Organizations and want to limit the advantage of Amazon EC2 Reserved Instances to a single account.

Which course of action should be followed?

- 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

Reference:

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

Question #654*Topic 1*

Which step will provide documentation that will assist a business in determining if its usage of the AWS Cloud complies with applicable regulatory standards?

- A. Running Amazon GuardDuty
- B. Using AWS Artifact
- C. Creating an AWS Support ticket
- D. Evaluating AWS CloudTrail logs

Correct Answer: B

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 #655*Topic 1*

A web developer with minimal experience of AWS networking technologies such as Amazon Virtual Private Cloud, Elastic Load Balancing, and Auto Scaling want to host a highly available web application.

Which AWS service would manage the deployment automatically and alleviate the developer's complexity?

- A. AWS CodeDeploy
- B. AWS Resource Access Manager
- C. AWS Elastic Beanstalk
- D. AWS CloudFormation

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/elasticbeanstalk/latest/dg>Welcome.html>**Question #656***Topic 1*

Which of the following Amazon Web Services (AWS) services is serverless? (Select two.)

- A. AWS Lambda
- B. Amazon Elasticsearch Service
- C. AWS Elastic Beanstalk
- D. Amazon DynamoDB
- E. Amazon Redshift

Correct Answer: AD**Question #657***Topic 1*

Which AWS services can be used to collect information about the activities of an AWS account? (Select two.)

- A. Amazon CloudFront
- B. AWS Cloud9
- C. AWS CloudTrail
- D. AWS CloudHSM
- E. Amazon CloudWatch

Correct Answer: CE

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 #658***Topic 1*

Which Amazon Web Services (AWS) offering provides permanent 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

Question #659

Topic 1

A business wants to evaluate a third-party ecommerce solution before committing to its long-term usage.

Which AWS service or tool will serve as the foundation for this effort?

- A. AWS Marketplace
- B. AWS Partner Network (APN)
- C. AWS Managed Services
- D. AWS Service Catalog

Correct Answer: A

Reference:

<https://aws.amazon.com/about-aws/whats-new/2019/09/aws-marketplace-easier-to-find-solutions-from-aws-console/>

Question #660

Topic 1

Which AWS services or features contribute to the reduction of network latency for a geographically scattered user base? (Select two.)

- A. Amazon VPC
- B. Elastic Load Balancer
- C. Amazon CloudFront
- D. AWS Direct Connect
- E. AWS Global Accelerator

Correct Answer: BD

Reference:

<https://aws.amazon.com/blogs/startups/optimizing-latency-and-bandwidth-for-aws-traffic/>

Question #661*Topic 1*

Which free AWS service or tool assists in identifying underused Amazon EC2 instances and idle Amazon RDS DB instances?

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

Correct Answer: D

Reference:

<https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/>**Question #662***Topic 1*

Which of the following describes Amazon S3? (Select 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**Question #663***Topic 1*

Why is it advantageous to utilize Elastic Load Balancers in conjunction 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

Reference:

<https://docs.aws.amazon.com/elasticloadbalancing/latest/userguide/what-is-load-balancing.html>**Question #664***Topic 1*

Utilizing AWS Identity and Access Management (IAM) to restrict access to just the resources necessary to complete a job is referred to as:

- A. restricted access.
- B. as-needed access.
- C. least privilege access.
- D. token access.

Correct Answer: C

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 #665*Topic 1*

A business that operates on the AWS Cloud must generate distinct invoices for each environment, such as development, testing, and production.

How is this accomplished?

- A. Use multiple AWS accounts
- B. Use resource tagging
- C. Use multiple VPCs
- D. Use Cost Explorer

Correct Answer: B

Question #666*Topic 1*

Which of the following may be used to restrict access to an Amazon Storage Service (Amazon S3) bucket to specified 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

Reference:

<https://aws.amazon.com/blogs/security/how-to-restrict-amazon-s3-bucket-access-to-a-specific-iam-role/>

Question #667*Topic 1*

Which of the following is a shared control mechanism between the client and Amazon Web Services?

- 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

Reference:

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

Question #668*Topic 1*

For one month, a business is testing a new customer-facing application on Amazon Elastic Compute Cloud (Amazon EC2).

Which pricing strategy is most appropriate?

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

Correct Answer: C

Reference:

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

Question #669

Topic 1

Which Amazon Web Services (AWS) service should I use to generate a billing alarm?

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

Correct Answer: C

Reference:

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

Question #670

Topic 1

What information may users access using 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

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 #671*Topic 1*

What is a job in Amazon Web Services' Identity and Access Management (IAM) system?

- 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

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 #672*Topic 1*

Which AWS service offers a self-service site for accessing AWS compliance reports on-demand?

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

Correct Answer: D

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 #673*Topic 1*

Which AWS services have automatic data backups by default?

- A. Amazon S3**
- B. Amazon Aurora
- C. Amazon ElastiCache for Memcached
- D. Amazon Elastic File System (Amazon EFS)

Correct Answer: A

Reference:

<https://aws.amazon.com/backup-restore/>

Question #674*Topic 1*

Which AWS service will be responsible for tracking user activities on AWS?

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

Correct Answer: C

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 #675**Topic 1**

How can AWS customers exchange infrastructure costs for operational costs?

- 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

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 #676**Topic 1**

Which of the following are advantages of using Amazon RDS over an on-premises database?
(Select 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

Reference:

<https://www.missioncloud.com/blog/resource-the-advantages-of-running-sql-server-on-aws>

Question #677**Topic 1**

IT systems should be structured in such a way that changes or failures in one component do not cascade to other components.

This is an illustration of which cloud architecture design principle?

- A. Scalability
- B. Loose coupling
- C. Automation
- D. Automatic scaling

Correct Answer: B

Reference:

https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf
(20)

Question #678**Topic 1**

Which service may be used to monitor and get alerts for AWS account root user sign-in events through the AWS Management Console?

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

Correct Answer: A

Reference:

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

Question #679*Topic 1*

Which AWS feature will result in a lower total cost of ownership (TCO) for the customer?

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

Correct Answer: C

Question #680*Topic 1*

Which of the following deployment strategies allows clients to completely exchange capital IT expenditures for operational expenditures?

- A. On-premises
- B. Hybrid
- C. Cloud
- D. Platform as a service

Correct Answer: C

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 #681*Topic 1*

Which cloud computing benefit can a business get by using AWS Regions to expand application availability to consumers in many countries?

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

Correct Answer: C

Reference:

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

Question #682*Topic 1*

Which login credentials for the AWS Management Console adhere to security best practices?
(Select 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

Reference:

<https://aws.amazon.com/blogs/security/getting-started-follow-security-best-practices-as-you-configure-your-aws-resources/>

Question #683*Topic 1*

How does AWS accelerate the provisioning of 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**Question #684***Topic 1*

A business would want to monitor the CPU use of its Amazon EC2 resources.
Which Amazon Web Services (AWS) service should the business use?

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

Correct Answer: B

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 #685*Topic 1*

Which AWS service gives a personalized picture of the health of individual AWS services that are used to power a customer's workloads on AWS?

- A. AWS Service Health Dashboard
- B. AWS X-Ray
- C. AWS Personal Health Dashboard
- D. Amazon CloudWatch

Correct Answer: C

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 #686*Topic 1*

Which of the following security-related acts is free?

- 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**Question #687***Topic 1*

The compliance officer of a corporation requests access to the AWS Service Organization Control (SOC) reports.

Which Amazon Web Services (AWS) service or functionality should the compliance officer use to accomplish this task?

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

Correct Answer: A

Reference:

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

Question #688*Topic 1*

Which of the following services falls under the AWS serverless platform category?

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

Correct Answer: C

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 #689*Topic 1*

Which AWS Trusted Advisor checks are accessible to AWS Basic Support customers? (Select 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

Reference:

<https://aws.amazon.com/premiumsupport/faqs/>**Question #690***Topic 1*

Which AWS Cost Management tool provides the most detailed information about your AWS bill?

- A. AWS Cost Explorer
- B. AWS Budgets
- C. AWS Cost and Usage report
- D. AWS Billing dashboard

Correct Answer: C

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 #691*Topic 1*

A user with minimal familiarity with AWS services want to rapidly create a scalable Node.js application in the AWS Cloud.

Which deployment service should be utilized for the application?

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

Correct Answer: *B*

Reference:

<https://aws.amazon.com/elasticbeanstalk/>**Question #692***Topic 1*

A developer has an AWS account and requires access to the test database of another account.

Which Amazon Web Services (AWS) service or capability can the developer use to access the test database?

- A. Amazon Macie
- B. Security groups
- C. IAM roles**
- D. AWS Trusted Advisor

Correct Answer: *C*

Reference:

https://docs.aws.amazon.com/IAM/latest/UserGuide/tutorial_cross-account-with-roles.html**Question #693***Topic 1*

Which of the following is not a component of AWS's shared responsibility model?

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

Correct Answer: *D*

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 #694*Topic 1*

Which of the following is a managed computing service provided by AWS?

- A. Amazon SWF
- B. Amazon EC2**
- C. AWS Lambda
- D. Amazon Aurora

Correct Answer: *B***Question #695***Topic 1*

Which AWS Support package includes a comprehensive set of AWS Trusted Advisor audits?

- A. Business and Developer Support
- B. Business and Basic Support
- C. Enterprise and Developer Support
- D. Enterprise and Business Support**

Correct Answer: *D*

Question #696*Topic 1*

Which service should be utilized to determine the expenses associated with launching 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

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 #697*Topic 1*

Which controls does AWS completely transfer to the client under 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

Reference:

<https://docs.aws.amazon.com/wellarchitected/latest/security-pillar/shared-responsibility.html>

Question #698*Topic 1*

Which Amazon Web Services managed services are available for connecting an on-premises data center to the AWS network? (Select two.)

- A. AWS VPN**
- B. NAT gateway
- C. AWS Direct Connect
- D. Amazon Connect
- E. Amazon Route 53

Correct Answer: AC**Question #699***Topic 1*

A business is contemplating adopting AWS to host a self-hosted database that needs nightly shutdowns for maintenance and cost savings.

Which service should the business utilize?

- 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

Which of the following functions as a virtual firewall at the Amazon EC2 instance level, allowing one or more instances to govern their own traffic?

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

Correct Answer: C

Reference:

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

Question #701*Topic 1*

Which AWS service is perpetually free for users?

- A. Amazon S3
- B. Amazon Aurora
- C. Amazon EC2
- D. AWS Identity and Access Management (IAM)

Correct Answer: C

Reference:

<https://aws.amazon.com/free/free-tier-faqs/>**Question #702***Topic 1*

Which of the following benefits does AWS consolidated billing provide? (Select 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

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/consolidated-billing.html>**Question #703***Topic 1*

How is the AWS Enterprise Support Concierge team of experts able to assist 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

Reference:

<https://aws.amazon.com/premiumsupport/plans/enterprise/>**Question #704***Topic 1*

A database administrator is attempting to track down the individual who erased a vital Amazon Redshift cluster.

Which AWS service assists in monitoring and archiving such account activity?

- A. AWS CloudTrail
- B. AWS Organizations
- C. AWS Identity and Access Management (IAM)
- D. AWS Trusted Advisor

Correct Answer: A

Question #705**Topic 1**

What is the Amazon CloudWatch service?

- 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

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 #706**Topic 1**

A business that has just moved to AWS want to provide intelligent threat prevention and continuous monitoring across all of its AWS accounts.

Which AWS service should the business employ to accomplish this objective?

- A. Amazon Macie
- B. Amazon GuardDuty
- C. AWS Shield
- D. Amazon Detective

Correct Answer: B

Reference:

<https://aws.amazon.com/guardduty/>

Question #707**Topic 1**

Which responsibilities does AWS have under the shared responsibility approach 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

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 #708**Topic 1**

Which AWS service or feature can be used to obtain information about the availability of all AWS services?

- A. AWS Personal Health Dashboard
- B. AWS CloudTrail
- C. AWS Service Health Dashboard
- D. Amazon CloudWatch

Correct Answer: C

Reference:

<https://status.aws.amazon.com/>

A business has activated billing alerts in its AWS account and wishes to be notified through Amazon Simple Notification Service (Amazon SNS) anytime its monthly cost exceeds a predefined threshold.

Which AWS service or technology should the business use to do this?

- A. Amazon CloudWatch
- B. Cost Explorer
- C. AWS Cost and Usage Report
- D. AWS Pricing Calculator

Correct Answer: A

Reference:

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

Which AWS service notifies customers when an AWS event may have an effect on their AWS resources?

- A. AWS Personal Health Dashboard
- B. AWS Service Health Dashboard
- C. AWS Trusted Advisor
- D. AWS Infrastructure Event Management

Correct Answer: A

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 #711*Topic 1*

Which AWS service is used to encrypt Amazon EBS data?

- A. AWS Certificate Manager
- B. AWS Systems Manager
- C. AWS KMS
- D. AWS Config

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/kms/latest/developerguide/services-ebs.html>**Question #712***Topic 1*

Which of the following advantages are associated with using AWS Trusted Advisor? (Select 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

Reference:

<https://aws.amazon.com/about-aws/whats-new/2016/06/aws-support-enables-tagging-capabilities-for-trusted-advisor/>**Question #713***Topic 1*

Which of the following is a critical architectural design concept to consider while developing cloud-based applications?

- A. Use multiple Availability Zones.
- B. Use tightly coupled components.
- C. Use open source software.
- D. Provision extra capacity.

Correct Answer: A

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 #714***Topic 1*

What is the purpose of the AWS Simple Monthly Calculator?

- 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

Reference:

<https://aws.amazon.com/blogs/aws/estimate-your-c/>

Question #715*Topic 1*

Which AWS service may be used to create a cloud-based contact center on-demand?

- A. AWS Direct Connect
- B. Amazon Connect**
- C. AWS Support Center
- D. AWS Managed Services

Correct Answer: *B*

Reference:

<https://aws.amazon.com/connect/customers/>

Question #716*Topic 1*

A business wishes to host its MySQL databases on Amazon Web Services (AWS) while maintaining complete control over the operating system, database installation, and configuration.

Which Amazon Web Services (AWS) service should the business choose to host the databases?

- A. Amazon RDS
- B. Amazon EC2**
- C. Amazon DynamoDB
- D. Amazon Aurora

Correct Answer: *B*

Reference:

[https://d1.awsstatic.com/whitepapers/best-practices-for-running-oracle-database-on-aws.pdf?did=wp_card&trk=wp_card\(06\)](https://d1.awsstatic.com/whitepapers/best-practices-for-running-oracle-database-on-aws.pdf?did=wp_card&trk=wp_card(06))

Question #717*Topic 1*

How does Amazon Web Services 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*

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 #718*Topic 1*

What is the distinguishing feature 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*

Reference:

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

Question #719*Topic 1*

A customer has an AWS account with a Business-level AWS Support subscription and need help managing a production service outage.

What should the user do?

- 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

Question #720*Topic 1*

Which AWS service enables customers to get on-demand security and compliance reports for AWS infrastructure?

- A. Amazon GuardDuty
- B. AWS Security Hub
- C. AWS Artifact
- D. AWS Shield

Correct Answer: C

Question #721*Topic 1*

Which AWS offering enables a business to build a relational database in the AWS Cloud?

- A. Amazon RDS
- B. Amazon DynamoDB
- C. Amazon ElastiCache
- D. Amazon S3

Correct Answer: A

Reference:

<https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Welcome.html>**Question #722***Topic 1*

Which Amazon Web Services (AWS) service or resource is serverless?

- A. AWS Lambda
- B. Amazon EC2 instances
- C. Amazon Lightsail
- D. Amazon ElastiCache

Correct Answer: A

Reference:

<https://blogs.itemis.com/en/serverless-services-on-aws>**Question #723***Topic 1*

Which managed service provided by AWS is used to host databases?

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

Correct Answer: D

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

Reference:

<https://aws.amazon.com/rds/?c=db&sec=srv>**Question #724***Topic 1*

Which of the following statements is true about 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

Reference:

<https://aws.amazon.com/about-aws/global-infrastructure/localzones/>

Question #725*Topic 1*

A business is building an e-commerce website with the purpose of storing and processing credit card data. The organization is in need of information about AWS compliance reports and AWS agreements.

Which Amazon Web Services (AWS) offering enables on-demand access to these items?

- A. AWS Certificate Manager
- B. AWS Config
- C. AWS Artifact
- D. AWS CloudTrail

Correct Answer: C

Question #726*Topic 1*

Which of the following AWS Cloud services may be used to administer a relational database for a customer?

- A. Amazon EC2
- B. Amazon Route 53
- C. Amazon ElastiCache
- D. Amazon DynamoDB

Correct Answer: A

Question #727*Topic 1*

Which of the following services may be used to prevent network traffic from reaching a particular instance? (Select 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

Reference:

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

Question #728*Topic 1*

Which of the following enables customers to create a dedicated network connection between their internal network and Amazon Web Services?

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

Correct Answer: B

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/>

Which AWS service is suitable for serving static websites?

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

Correct Answer: A

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>

A Cloud Practitioner must ascertain if any security groups in an Amazon Web Services account have been established to provide unlimited access to certain ports.

What is the MOST SIMPLE method 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

Reference:

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

Question #731*Topic 1*

Which pricing model will terminate an Amazon EC2 instance that is already operating if capacity becomes temporarily unavailable?

- A. On-Demand Instances
- B. Standard Reserved Instances
- C. Spot Instances
- D. Convertible Reserved Instances

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/spot-fleet.html>**Question #732***Topic 1*

Which Amazon S3 storage class enables customers to keep backup data for extended periods of time at the LOWEST possible 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

Reference:

<https://aws.amazon.com/s3/storage-classes/#:~:text=S3%20Glacier%20Deep%20Archive%20is,or%20twice%20in%20a%20year>**Question #733***Topic 1*

How can a business account for network traffic, Amazon EC2, Amazon S3, and other AWS services on a department-by-department basis?

- 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**Question #734***Topic 1*

What is an AWS Availability Zone?

- 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

Reference:

https://aws.amazon.com/about-aws/global-infrastructure/regions_az/

Question #735*Topic 1*

Which of the following is not an AWS responsibility?

- 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

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 #736*Topic 1*

Where can I get AWS compliance documentation, such as a SOC 1 report?

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

Correct Answer: C

Reference:

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

Question #737*Topic 1*

Which of the following will increase the security of AWS Management Console access? (Select 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

Reference:

<https://aws.amazon.com/blogs/security/guidelines-for-protecting-your-aws-account-while-using-programmatic-access/>

Question #738*Topic 1*

Which of the following is an advantage of the AWS Compliance program for AWS customers? (Select 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

Reference:

https://d0.awsstatic.com/whitepapers/compliance/AWS_Risk_and_Compliance_Whitepaper.pdf

Which of the following is an illustration of how migrating to the AWS Cloud lowers initial costs?

- 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*

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/>

What distinguishes 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*

Reference:

<https://docs.aws.amazon.com/AmazonS3/latest/dev/replication.html>

Question #741*Topic 1*

Which service allows risk audits by monitoring and recording account activities on a continuous basis, 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*

Reference:

<https://aws.amazon.com/cloudtrail/>**Question #742***Topic 1*

How can one Amazon Web Services account use Reserved Instances from another Amazon Web Services 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*

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 #743***Topic 1*

An application is executed on many Amazon EC2 instances that concurrently access a shared file system.

Which Amazon Web Services (AWS) storage service should be used?

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

Correct Answer: *B*

Reference:

<https://aws.amazon.com/efs/>**Question #744***Topic 1*

A solutions architect must manage a fleet of Amazon EC2 instances to ensure that any instances that fail are replaced.

Which Amazon Web Services (AWS) offering should the solutions architect utilize?

- A. Amazon Elastic Container Service (Amazon ECS)
- B. Amazon GuardDuty
- C. AWS Shield
- D. AWS Auto Scaling**

Correct Answer: *D*

Reference:

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

Question #745*Topic 1*

Which of the following services will automatically scale as online traffic increases?

- A. AWS CodePipeline
- B. Elastic Load Balancing**
- C. Amazon EBS
- D. AWS Direct Connect

Correct Answer: *B*

Reference:

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

Question #746*Topic 1*

The security team of a business mandates that all Amazon EC2 workloads use authorized Amazon Machine Images (AMIs).

Which AWS service should the organization utilize to ensure that its EC2 instances are utilizing authorized AMIs?

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

Correct Answer: *C*

Reference:

<https://aws.amazon.com/blogs/devops/aws-config-checking-for-compliance-with-new-managed-rule-options/>

Question #747*Topic 1*

Which of the following is a benefit of Amazon EC2 instances over on-premises servers? (Select two.)

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

Correct Answer: *BD*

Question #748*Topic 1*

Which of the following statements is true about the AWS Well-Architected Framework's pillars? (Select two.)

- A. Multiple Availability Zones
- B. Performance efficiency**
- C. Security**
- D. Encryption usage
- E. High availability

Correct Answer: *BC*

Reference:

https://d1.awsstatic.com/whitepapers/architecture/AWS_Well-Architected_Framework.pdf
(5)

Question #749**Topic 1**

Which Amazon EC2 pricing model is the MOST cost effective for a non-stop workload that runs for 24 hours once a year?

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

Correct Answer: A

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 #750**Topic 1**

Which of the following security measures safeguards an AWS account's access? (Select 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

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-programmatic-access/>

Question #751*Topic 1*

Which of the following may be used by an Amazon Web Services (AWS) client to create 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**Question #752***Topic 1*

Which of the following is a benefit of AWS's consolidated billing?

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

Correct Answer: A

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 #753*Topic 1*

Which of the following is an Amazon Web Services (AWS) managed service that is dedicated to extract, transform, and load (ETL) data?

- A. Amazon Athena
- B. AWS Glue
- C. Amazon S3
- D. AWS Snowball Edge

Correct Answer: B

Reference:

<https://docs.aws.amazon.com/glue/latest/dg/what-is-glue.html>

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- D. AWS Snowball Edge

Correct Answer: B

Reference:

<https://docs.aws.amazon.com/glue/latest/dg/what-is-glue.html>

Question #755*Topic 1*

Which tool allows users who do not have an AWS account to estimate the cost of almost all AWS services?

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

Correct Answer: A

Reference:

<https://aws.amazon.com/aws-cost-management/aws-cost-explorer/>**Question #756***Topic 1*

A user needs to prepare a report that summarizes the status of AWS account's major security checks. The report must contain the following:

- ☞ The status of Amazon S3 bucket permissions.
- ☞ Whether multi-factor authentication is enabled for the AWS account root user.
- If any security groups are set to enable unlimited access, this will be shown.

Where can I get all of this information in one place?

- A. Amazon QuickSight dashboard
- B. AWS CloudTrail trails
- C. AWS Trusted Advisor report
- D. IAM credential report

Correct Answer: C

Reference:

<https://aws.amazon.com/premiumsupport/technology/trusted-advisor/best-practice-checklist/#Security>**Question #757***Topic 1*

Which AWS service enables the detection of unintentional data breaches including personally identifiable information (PII) and user credential data?

- A. Amazon GuardDuty
- B. Amazon Inspector
- C. Amazon Macie
- D. AWS Shield

Correct Answer: C

Reference:

<https://aws.amazon.com/macie/>**Question #758***Topic 1*

Which Amazon RDS feature is most appropriate for achieving high availability?

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

Correct Answer: A

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>

Which Amazon Web Services offering offers risk audits of an AWS account by monitoring and documenting user activity and source IP addresses?

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

Correct Answer: D

Reference:

<https://aws.amazon.com/cloudtrail/#:~:text=AWS%20CloudTrail%20is%20a%20service,actions%20across%20your%20AWS%20infrastructure>

A business want to develop new application workloads on the AWS Cloud rather than on-premises resources.

What costs may be saved by 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

Reference:

<https://aws.amazon.com/pricing/cost-optimization/>

Question #761*Topic 1*

Which of the following AWS Global Infrastructure components consists of one or more separate data centers linked through low-latency links?

- A. Availability Zone
- B. Edge location
- C. Region
- D. Private networking

Correct Answer: A

Reference:

<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/global-infrastructure.html>**Question #762***Topic 1*

Which AWS services take use of AWS edge locations? (Select two.)

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

Correct Answer: AB

Reference:

<https://www.edureka.co/community/600/what-is-an-edge-location-in-aws>**Question #763***Topic 1*

Which of the following BEST describes the Amazon Web Services (AWS) pricing model? (Select two.)

- A. Fixed-term
- B. Pay-as-you-go
- C. Colocation
- D. Planned
- E. Variable cost

Correct Answer: BE

Reference:

https://d0.awsstatic.com/whitepapers/aws_pricing_overview.pdf**Question #762***Topic 1*

Which AWS services take use of AWS edge locations? (Select two.)

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

Correct Answer: AB

Reference:

<https://www.edureka.co/community/600/what-is-an-edge-location-in-aws>**Question #764***Topic 1*

Which AWS service is intended to assist customers who want to use machine learning for natural language processing (NLP) but lack prior machine learning experience?

- A. Amazon Comprehend
- B. Amazon SageMaker
- C. AWS Deep Learning AMIs (DLAMI)
- D. Amazon Rekognition

Correct Answer: A

Reference:

<https://aws.amazon.com/comprehend/>

Question #765*Topic 1*

Which AWS service enables the management of a PostgreSQL database for online transaction processing (OLTP)?

- A. Amazon DynamoDB
- B. Amazon Athena
- C. Amazon RDS
- D. Amazon EMR

Correct Answer: C

Reference:

<https://aws.amazon.com/rds/postgresql/>**Question #766***Topic 1*

Which AWS Well-Architected Framework pillar incorporates the AWS shared responsibility model?

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

Correct Answer: D

Reference:

<https://aws.amazon.com/blogs/apn/the-5-pillars-of-the-aws-well-architected-framework/>**Question #767***Topic 1*

A user must adhere to compliance and software licensing requirements that require a workload to be physically housed on a server.

Which Amazon EC2 instance pricing model will satisfy these criteria?

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

Correct Answer: A

Reference:

<https://aws.amazon.com/ec2/dedicated-hosts/>**Question #768***Topic 1*

Which of the following technologies enables a secure network connection between on-premises and Amazon Web Services (AWS)?

- A. Virtual Private Network
- B. AWS Snowball
- C. Amazon Virtual Private Cloud (Amazon VPC)
- D. AWS Mobile Hub

Correct Answer: C

Reference:

<https://aws.amazon.com/blogs/apn/amazon-vpc-for-on-premises-network-engineers-part-one/>

A business wishes to utilize an AWS service to monitor the health of application endpoints and to redirect traffic to healthy regional endpoints in order to increase application availability.

Which service will meet these criteria?

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

Correct Answer: C

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.sort-by=item.additionalFields.createdDate&blogs-global-accelerator.sort-order=desc&aws-global-accelerator-wn.sort-by=item.additionalFields.postDateTime&aws-global-accelerator-wn.sort-order=desc>

Which AWS service enables manual instance creation based on resource requirements?

- A. Amazon EBS
- B. Amazon S3
- C. Amazon EC2
- D. Amazon ECS

Correct Answer: C

Question #771*Topic 1*

Which AWS service serves as a data extraction, transformation, and loading (ETL) tool, simplifying the process of preparing data for analytics?

- A. Amazon QuickSight
- B. Amazon Athena
- C. AWS Glue
- D. AWS Elastic Beanstalk

Correct Answer: C

Reference:

<https://aws.amazon.com/blogs/database/how-to-extract-transform-and-load-data-for-analytic-processing-using-aws-glue-part-2/>

Question #772*Topic 1*

Utilizing AWS Config to track, audit, and analyze changes to AWS resources in order to provide traceability is an example of which pillar of the AWS Well-Architected Framework?

- A. Security
- B. Operational excellence
- C. Performance efficiency
- D. Cost optimization

Correct Answer: A

Reference:

[\(12\)](https://d1.awsstatic.com/whitepapers/architecture/AWS_Well-Architected_Framework.pdf)

Question #773*Topic 1*

Which of the following is an Amazon Web Services (AWS) database service?

- A. Amazon Redshift
- B. Amazon Elastic Block Store (Amazon EBS)
- C. Amazon S3 Glacier
- D. AWS Snowball

Correct Answer: A

Reference:

<https://www.sisense.com/glossary/redshift-database/>

Question #774*Topic 1*

How should a user deploy an application across geographically distinct 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

Reference:

https://aws.amazon.com/about-aws/global-infrastructure/regions_az/

Question #775**Topic 1**

An external auditor has demanded that a business produce a list of all IAM users, along with the status of each user's credentials and access keys.

What is the MOST SIMPLE method of delivering 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

Reference:

https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_getting-report.html**Question #776****Topic 1**

Which AWS service offers a straightforward and scalable shared file storage solution for use with AWS and on-premises Linux servers?

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

Correct Answer: D

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 #777**Topic 1**

Which of the following statements accurately defines a security best practice that may be executed 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

Reference:

<https://cloudcheckr.com/cloud-security/top-5-iam-best-practices/>**Question #778****Topic 1**

Which AWS service is used to evaluate the costs of hosting an application on-premises vs running it on 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

Reference:

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

Question #779*Topic 1*

Which of the Reserved Instance (RI) pricing models allows for modification of the RI's characteristics as long as the exchange results in the production of RIs of equal or higher value?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/ec2/pricing/reserved-instances/>**Question #780***Topic 1*

Which pillar of the AWS Well-Architected Framework requires timely resource provisioning and scaling as required to sustain effectiveness as demand changes?

- A. Cost optimization
- B. Security
- C. Operational excellence
- D. Performance efficiency

Correct Answer: D

Reference:

[\(24\)](https://docs.aws.amazon.com/wellarchitected/latest/framework/wellarchitected-framework.pdf)

Question #781**Topic 1**

Which of the following is a software development framework that enables businesses to specify cloud resources as code and then deploy them using AWS CloudFormation?

- A. AWS CLI
- B. AWS Developer Center
- C. AWS Cloud Development Kit (AWS CDK)
- D. AWS CodeStar

Correct Answer: C

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 #782****Topic 1**

Which pillar of the AWS Well-Architected Framework is focused on the ability to efficiently operate workloads, get visibility into operations, and constantly enhance supporting processes and procedures?

- A. Cost optimization
- B. Reliability
- C. Operational excellence
- D. Performance efficiency

Correct Answer: C

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 #783****Topic 1**

Which Amazon S3 storage class is optimal for providing access to data that has lower resilience requirements but requires quick access in certain circumstances, 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

Reference:

<https://aws.amazon.com/s3/storage-classes/>**Question #784****Topic 1**

Which AWS container service will assist the customer with the installation, operation, and scaling of 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

Question #785*Topic 1*

Which form of AWS storage is considered ephemeral and is automatically erased when an instance is stopped or terminated?

- A. Amazon EBS
- B. Amazon EC2 instance store**
- C. Amazon EFS
- D. Amazon S3

Correct Answer: B

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 #786*Topic 1*

How should users go if they want to deploy an application in geographically remote areas?

- 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

Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.html>

Question #787*Topic 1*

Which AWS service identifies security groups that provide unlimited Internet access to a limited number of ports?

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

Correct Answer: B**Question #788***Topic 1*

A user is running an application on Amazon Web Services (AWS) and observes that one or more AWS-owned IP addresses are being used in a distributed denial-of-service (DDoS) assault.

Whom should the user first contact in this situation?

- A. AWS Premium Support
- B. AWS Technical Account Manager
- C. AWS Solutions Architect
- D. AWS Abuse team**

Correct Answer: D

Reference:

<https://aws.amazon.com/premiumsupport/knowledge-center/report-aws-abuse/>

Which design principles should be taken into account while architecting for 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

Reference:

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

Which AWS function or service allows for the collection of data 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

Reference:

<https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs.html>

Question #791*Topic 1*

Which pricing model results in the most savings on Amazon Elastic Compute Cloud (Amazon EC2) for a database server that must be available for one year?

- A. Spot Instance
- B. On-Demand Instance
- C. Partial Upfront Reserved Instance
- D. No Upfront Reserved Instance

Correct Answer: C

Reference:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-reserved-instances.html>**Question #792***Topic 1*

Which AWS infrastructure deployment model brings AWS computing, storage, database, and other select services closer to end users, allowing for the execution of latency-sensitive applications?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/about-aws/global-infrastructure/localzones/features/#:~:text=AWS%20Local%20Zones%20are%20a,millisecond%20latency%20to%20end-users>**Question #793***Topic 1*

Which Amazon Web Services (AWS) service can notify you when personally identifiable information (PII) is stored in an Amazon S3 bucket?

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

Correct Answer: B

Reference:

<https://aws.amazon.com/macie/#:~:text=Macie%20automatically%20detects%20a%20large,addresses%2C%20and%20credit%20card%20numbers>**Question #794***Topic 1*

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

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

Correct Answer: B

Reference:

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

Question #795*Topic 1*

Which AWS service allows customers to monitor for certain words, values, or patterns and configure alerts based on metrics?

- A. AWS IQ
- B. Amazon Comprehend
- C. AWS CloudTrail
- D. Amazon CloudWatch Logs

Correct Answer: D

Reference:

<https://aws.amazon.com/cloudwatch/features/>**Question #796***Topic 1*

What is the MINIMUM AWS Support plan level that provides access to the AWS Support API for users?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/premiumsupport/plans/>**Question #797***Topic 1*

What is the AWS customer's share of duty under 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**Question #798***Topic 1*

Which of the following relationships between regions, Availability Zones, and edge locations is correct?

- A. Data centers contain regions.
- B. Regions contain Availability Zones.
- C. Availability Zones contain edge locations.
- D. Edge locations contain regions.

Correct Answer: B

Reference:

https://aws.amazon.com/about-aws/global-infrastructure/regions_az/#Region_Maps_and_Edge_Networks

Question #799*Topic 1*

What is the MINIMUM level of AWS Support that includes dedicated Technical Account Managers?

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

Correct Answer: A

Reference:

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

Question #800*Topic 1*

Which of the following services is a MySQL-compatible database that expands storage automatically 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

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 #801*Topic 1*

Which of the following Amazon EC2 pricing structures enables users to leverage pre-existing server-bound software licenses?

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

Correct Answer: C

Reference:

<https://aws.amazon.com/ec2/pricing/>**Question #802***Topic 1*

Which of the following benefits is accessible for Convertible Reserved Instances but NOT for 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

Reference:

<https://aws.amazon.com/about-aws/whats-new/2016/09/amazon-ec2-convertible-reserved-instances-and-the-reserved-instance-regional-benefit/>**Question #803***Topic 1*

Which AWS service is used to pay AWS bills, track consumption, and manage budget costs?

- A. AWS Billing and Cost Management
- B. Consolidated billing
- C. Amazon CloudWatch
- D. Amazon QuickSight

Correct Answer: A

Reference:

<https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/billing-what-is.html>**Question #804***Topic 1*

Which of the following Reserved Instance (RI) pricing schemes results in the greatest average savings over 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

Reference:

<https://aws.amazon.com/ec2/pricing/reserved-instances/pricing/>

Question #805*Topic 1*

Which component of the AWS global infrastructure is comprised of one or more distinct data centers, each with redundant power, networking, and connectivity, and located in their own facility?

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

Correct Answer: *B*

Reference:

<https://docs.aws.amazon.com/whitepapers/latest/aws-overview/global-infrastructure.html>**Question #806***Topic 1*

Which AWS service level agreement includes a dedicated Technical Account Manager?

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

Correct Answer: *B*

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 #807***Topic 1*

A business requires an increase in the response time for high-volume queries to its relational database.

Which AWS service should the business use to offload requests to the database and thereby reduce overall response times?

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

Correct Answer: *A***Question #808***Topic 1*

What are the advantages of utilizing Amazon Web Services 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*

Which AWS security service protects applications against distributed denial of service threats by providing continuous detection and automated inline mitigations?

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

Correct Answer: D

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/>

Which of the following enables an application running on an Amazon EC2 instance to write data securely to an Amazon S3 bucket without the need for long-term credentials?

- A. Amazon Cognito
- B. AWS Shield
- C. AWS IAM role
- D. AWS IAM user access key

Correct Answer: C

Which AWS service or feature enables the establishment of a dedicated network connection between an organization'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

Reference:

<https://www.stratoscale.com/blog/cloud/build-secure-tunnel-on-prem-data-center-amazon-cloud/#:~:text=AWS%20Direct%20Connect%20allows%20you,that%20provide%20connectivity%20to%20AWS>