

Practice Exam Questions



CLF-C01

Certified Cloud Practitioner



EXAMKILLER

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Amazon Web Services

Exam CLF-C01

AWS Certified Cloud Practitioner

Version: 39.0

[Total Questions: 370]

Topic break down

Topic	No. of Questions
Topic 1: Exam Pool A	113
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Topic 3: Exam Pool C	161

Topic 1, Exam Pool A

Question No : 1 - (Topic 1)

A web application is hosted on AWS using an Elastic Load Balancer, multiple Amazon EC2 instances, and Amazon RDS. Which security measures fall under the responsibility of AWS? (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

Answer: B,C

Question No : 2 - (Topic 1)

A company discovered unauthorized access to resources in its on-premises data center. Upon investigation, the company found that the requests originated from a resource hosted on AWS. Which AWS team should the company contact to report this issue?

- A. AWS Customer Service team
- B. AWS Sales team
- C. AWS Abuse team
- D. AWS Technical Support team

Answer: D

Question No : 3 - (Topic 1)

Which AWS service enables the decoupling and scaling of applications?

- A. Amazon Simple Queue Service (Amazon SQS)
- B. AWS Outposts
- C. Amazon S3
- D. Amazon Simple Email Service (Amazon SES)

Answer: A

Explanation: Amazon Simple Queue Service (SQS) is a fully managed message queuing

service that enables you to decouple and scale microservices, distributed systems, and serverless applications.

Question No : 4 - (Topic 1)

A company is using an Amazon RDS database to run reports that are input/output (I/O) intensive. Which AWS service can be used to improve the database performance?

- A. Amazon DynamoDB Accelerator (DAX)
- B. Amazon EMR
- C. Amazon ElastiCache
- D. Amazon Redshift

Answer: C

Question No : 5 - (Topic 1)

A company needs an AWS Support plan that provides programmatic case management through the AWS Support API.

Which support plan will meet this requirement MOST cost-effectively?

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

Answer: B

Question No : 6 - (Topic 1)

Which AWS benefit enables users to deploy cloud infrastructure that consists of multiple geographic regions connected by a network with low latency, high throughput, and redundancy?

- A. Economies of scale
- B. Security
- C. Elasticity

D. Global reach

Answer: C

Explanation: The AWS Global Cloud Infrastructure is the most secure, extensive, and reliable cloud platform, offering over 200 fully featured services from data centers globally. Whether you need to deploy your application workloads across the globe in a single click, or you want to build and deploy specific applications closer to your end-users with single-digit millisecond latency, AWS provides you the cloud infrastructure where and when you need it.

Question No : 7 - (Topic 1)

A company needs to process data from satellite communications without managing any infrastructure.

Which AWS service should the company use to meet these requirements?

- A. Amazon CloudWatch
- B. Amazon Aurora
- C. Amazon Athena
- D. AWS Ground Station

Answer: D

Explanation: AWS Ground Station is a fully managed service that lets you control satellite communications, process data, and scale your operations without having to worry about building or managing your own ground station infrastructure. Satellites are used for a wide variety of use cases, including weather forecasting, surface imaging, communications, and video broadcasts. Ground stations form the core of global satellite networks. With AWS Ground Station, you have direct access to AWS services and the AWS Global Infrastructure including a low-latency global fiber network. For example, you can use Amazon S3 to store the downloaded data, Amazon Kinesis Data Streams for managing data ingestion from satellites, and Amazon SageMaker for building custom machine learning applications that apply to your data sets. You can save up to 80% on the cost of your ground station operations by paying only for the actual antenna time used, and relying on the global footprint of ground stations to download data when and where you need it. There are no long-term commitments, and you gain the ability to rapidly scale your satellite communications on-demand when your business needs it.

Question No : 8 - (Topic 1)

Which of the following are characteristics of a serverless application that runs in the AWS Cloud? (Select TWO.)

- A. Users must manually configure Amazon EC2 instances.
- B. Users have a choice of operating systems.
- C. The application has built-in fault tolerance.
- D. Users can run Amazon EC2 Spot Instances.
- E. The application can scale based on demand.

Answer: C,E

Question No : 9 - (Topic 1)

Which AWS service or feature enables users to block the incoming or outgoing traffic associated with specific IP addresses flowing through a VPC?

- A. Network ACLs
- B. Security groups
- C. AWS Identity and Access Management (IAM)
- D. AWS WAF

Answer: D

Explanation: To allow or block specific IP addresses for your EC2 instances, use a **network Access Control List (ACL) or security group rules** in your VPC. Network ACLs and security group rules act as firewalls allowing or blocking IP addresses from accessing your resources

Question No : 10 - (Topic 1)

Which AWS service allows for file sharing between multiple Amazon EC2 instances?

- A. AWS Direct Connect
- B. AWS Snowball Edge
- C. AWS Backup
- D. Amazon Elastic File System (Amazon EFS)

Answer: D

Explanation: Amazon EFS provides shared file storage for use with compute instances in the AWS Cloud and on-premises servers. Applications that require shared file access can use Amazon EFS for reliable file storage delivering high aggregate throughput to thousands of clients simultaneously.

Question No : 11 - (Topic 1)

Which AWS service offers threat detection and continuously monitors for malicious activity and unauthorized behavior in AWS accounts?

- A. Amazon Macie
- B. AWS Config
- C. Amazon GuardDuty
- D. Amazon Inspector

Answer: C

Question No : 12 - (Topic 1)

A company wants to improve the overall availability and performance of its applications that are hosted on AWS.

Which AWS service should the company use?

- A. Amazon Connect
- B. Amazon Lightsail
- C. AWS Global Accelerator
- D. AWS Storage Gateway

Answer: C

Question No : 13 - (Topic 1)

A company's on-premises application deployment cycle was 3-4 weeks. After migrating to the AWS Cloud, the company can deploy the application in 2-3 days. Which benefit has this company experienced by moving to the AWS Cloud?

- A. Elasticity
- B. Flexibility
- C. Agility
- D. Resilience

Answer: C

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

Question No : 14 - (Topic 1)

Which AWS service provides alerts when an AWS event may impact a company's AWS resources?

- A. AWS Personal Health Dashboard
- B. AWS Service Health Dashboard
- C. AWS Trusted Advisor
- D. AWS Infrastructure Event Management

Answer: C

Question No : 15 - (Topic 1)

A company needs to audit its AWS resources. The company must document any changes that have been made to the resources. Which AWS service will meet these requirements?

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

Answer: B

Question No : 16 - (Topic 1)

A company needs to run an application on Amazon EC2 instances. The instances cannot be interrupted at any time. The company needs an instance purchase option that

requires no long-term commitment or upfront payment. Which instance purchasing option will meet these requirements MOST cost-effectively ?

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

Answer: A

Question No : 17 - (Topic 1)

Which of the following are AWS compute services? (Select TWO.)

- A. Amazon Lightsail
- B. AWS Systems Manager
- C. AWS CloudFormation
- D. AWS Batch
- E. Amazon Inspector

Answer: A,D

Explanation: Amazon Lightsail is designed to be the easiest way to launch and manage a virtual private server with AWS. Lightsail plans include everything you need to jumpstart your project – a virtual machine, SSD-based storage, data transfer, DNS management, and a static IP address – for a low, predictable price.

AWS Batch enables developers, scientists, and engineers to easily and efficiently run hundreds of thousands of batch computing jobs on AWS. AWS Batch dynamically provisions the optimal quantity and type of compute resources (e.g., CPU or memory-optimized instances) based on the volume and specific resource requirements of the batch jobs submitted. With AWS Batch, there is no need to install and manage batch computing software or server clusters that you use to run your jobs, allowing you to focus on analyzing results and solving problems. AWS Batch plans, schedules, and runs your batch computing workloads across the full range of AWS compute services and features, such as Amazon EC2 and Spot Instances.

Question No : 18 - (Topic 1)

Which AWS service can be used to provide an on-demand, cloud-based contact center?

- A. AWS Direct Connect
- B. Amazon Connect
- C. AWS Support Center
- D. AWS Managed Services

Answer: B

Explanation: <https://aws.amazon.com/connect/>

Question No : 19 - (Topic 1)

A company wants a cost-effective option when running its applications in an Amazon EC2 instance for short time periods. The applications can be interrupted. Which EC2 instance type will meet these requirements?

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

Answer: A

Explanation: Spot Instances - Spot Instances are the most cost-effective choice if you are flexible about when your applications run and if your applications can be interrupted.

Question No : 20 - (Topic 1)

Which AWS service or tool lists all the users in an account and reports on the status of account details, including passwords, access keys, and multi-factor authentication (MFA) devices?

- A. WS Shield
- B. AWS Trusted Advisor
- C. Amazon Inspector
- D. IAM credential report

Answer: D

Explanation: You can generate and download a **credential report** that lists all users in your account and the status of their various credentials, including passwords, access keys, and MFA devices. You can get a credential report from the AWS Management Console,

the AWS SDKs and Command Line Tools , or the IAM API.

Question No : 21 - (Topic 1)

A company plans to launch an application that will run in multiple locations within the United States. The company needs to identify the two AWS Regions where the application can operate at the lowest price. Which AWS service or feature should the company use to determine the Regions that offer the lowest price?

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

Answer: C

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

Question No : 22 - (Topic 1)

A company stores configuration files in an Amazon S3 bucket. These configuration files must be accessed by applications that are running on Amazon EC2 instances.

According to AWS security best practices, how should the company grant permissions to allow the applications to access the S3 bucket?

- A. Use the AWS account root user access keys.
- B. Use the AWS access key ID and the EC2 secret access key.
- C. Use an IAM role with the necessary permissions.
- D. Activate multi-factor authentication (MFA) and versioning on the S3 bucket.

Answer: C

Question No : 23 - (Topic 1)

Which of the following is an AWS Well-Architected Framework design principle for operational excellence in the AWS Cloud?

- A. Go global in minutes.
- B. Make frequent, small, reversible changes.
- C. Implement a strong foundation of identity and access management.
- D. Stop spending money on hardware infrastructure for data center operations.

Answer: B

Name	Description
Operational Excellence	The ability to support development and run workloads effectively, gain insight into their operations, and to continuously improve supporting processes and procedures to deliver business value.
Security	The security pillar describes how to take advantage of cloud technologies to protect data, systems, and assets in a way that can improve your security posture.
Reliability	The reliability pillar encompasses the ability of a workload to perform its intended function correctly and consistently when it's expected to. This includes the ability to operate and test the workload through its total lifecycle. This paper provides in-depth, best practice guidance for implementing reliable workloads on AWS.
Performance Efficiency	The ability to use computing resources efficiently to meet system requirements, and to maintain that efficiency as demand changes and technologies evolve.
Cost Optimization	The ability to run systems to deliver business value at the lowest price point.
Sustainability	The ability to continually improve sustainability impacts by reducing energy consumption and increasing efficiency across all components of a workload by maximizing the benefits from the provisioned resources and minimizing the total resources required.

Explanation:

Table

Description automatically generated

Question No : 24 - (Topic 1)

A company needs steady and predictable performance from its Amazon EC2 instances at the lowest possible cost. The company also needs the ability to scale resources to ensure that it has the right resources available at the right time.

Which AWS service or resource will meet these requirements?

- A. Amazon CloudWatch
- B. Application Load Balancer
- C. AWS Batch
- D. Amazon EC2 Auto Scaling

Answer: D

Explanation: AWS Auto Scaling monitors your applications and automatically adjusts capacity to maintain steady, predictable performance at the lowest possible cost.

Question No : 25 - (Topic 1)

A company needs a centralized, secure way to create and manage cryptographic keys. The company will use the keys across a wide range of AWS services and applications. The company needs to track and document when the keys are created, used, and deleted.

Which AWS service or feature will meet these requirements?

- A. AWS Secrets Manager
- B. AWS License Manager
- C. AWS Systems Manager Parameter Store
- D. AWS Key Management Service (AWS KMS)

Answer: D

Explanation: AWS Key Management Service (AWS KMS) makes it easy for you to create and manage cryptographic keys and control their use across a wide range of AWS services and in your applications. AWS KMS is a secure and resilient service that uses hardware security modules that have been validated under FIPS 140-2, or are in the process of being validated, to protect your keys. AWS KMS is integrated with AWS CloudTrail to provide you with logs of all key usage to help meet your regulatory and compliance needs.

Question No : 26 - (Topic 1)

A company runs applications that process credit card information. Auditors have asked if the AWS environment has changed since the previous audit. If the AWS environment has changed, the auditors want to know how it has changed. Which AWS services can provide this information? (Select TWO.)

- A. AWS Artifact
- B. AWS Trusted Advisor
- C. AWS Config
- D. AWS Cloud Trail
- E. AWS Identity and Access Management (IAM)

Answer: C,D

Explanation: AWS Artifact is your go-to, central resource for compliance-related information that matters to you. It provides on-demand access to AWS' security and compliance reports and select online agreements.

AWS Trusted Advisor provides recommendations that help you follow AWS best practices. Trusted Advisor evaluates your account by using checks. These checks identify ways to optimize your AWS infrastructure, improve security and performance, reduce costs, and

monitor service quotas.

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.

AWS CloudTrail enables auditing, security monitoring, and operational troubleshooting by tracking user activity and API usage. CloudTrail logs, continuously monitors, and retains account activity related to actions across your AWS infrastructure, giving you control over storage, analysis, and remediation actions.

AWS Identity and Access Management (IAM) provides fine-grained access control across all of AWS. With IAM, you can specify who can access which services and resources, and under which conditions. With IAM policies, you manage permissions to your workforce and systems to ensure least-privilege permissions.

Question No : 27 - (Topic 1)

Which of the following is a way to use Amazon EC2 Auto Scaling groups to scale capacity in the AWS Cloud?

- A. Scale the number of EC2 instances in or out automatically, based on demand.
- B. Use serverless EC2 instances.
- C. Scale the size of EC2 instances up or down automatically, based on demand.
- D. Transfer unused CPU resources between EC2 instances.

Answer: A

Question No : 28 - (Topic 1)

A company manages global applications that require static IP addresses.

Which AWS service would enable the company to improve the availability and performance of its applications?

- A. Amazon CloudFront
- B. AWS Global Accelerator
- C. Amazon S3 Transfer Acceleration
- D. Amazon API Gateway

Answer: B

Explanation: AWS Global Accelerator provides you with a set of static IP addresses that can map to multiple application endpoints across AWS Regions, to improve redundancy.

Question No : 29 - (Topic 1)

Which action will provide documentation to help a company evaluate whether its use of the AWS Cloud is compliant with local regulatory standards?

- A. Running Amazon GuardDuty
- B. Using AWS Artifact
- C. Creating an AWS Support ticket
- D. AWS Cloud Trail logs

Answer: B

Question No : 30 - (Topic 1)

Which Amazon S3 feature or storage class uses the AWS backbone network and edge locations to reduce latencies from the end user to Amazon S3?

- A. S3 Cross-Region Replication
- B. S3 Transfer Acceleration
- C. S3 Event Notifications
- D. S3 Standard-Infrequent Access (S3 Standard-IA)

Answer: B

Explanation: S3TA improves transfer performance by routing traffic through Amazon CloudFront's globally distributed Edge Locations and over AWS backbone networks, and by using network protocol optimizations.

Question No : 31 - (Topic 1)

A company needs to design an AWS disaster recovery plan to cover multiple geographic areas. Which action will meet this requirement?

- A. Configure multiple AWS accounts.
- B. Configure the architecture across multiple Availability Zones in an AWS Region.

- C. Configure the architecture across multiple AWS Regions.
- D. Configure the architecture among many edge locations.

Answer: C

Question No : 32 - (Topic 1)

Which AWS service or feature enables users to get one bill and easily track charges for multiple AWS accounts?

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

Answer: A

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

Question No : 33 - (Topic 1)

Which controls are shared under the AWS shared responsibility model? (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

Answer: A,C

Explanation: In the AWS shared security model, a shared control, AWS provides the requirements for the infrastructure and the customer must provide their own control implementation within their use of AWS services.

Examples of shared controls include:

*Patch Management – AWS is responsible for patching and fixing flaws within the infrastructure, but customers are responsible for patching their guest OS and applications.

*Configuration Management – AWS maintains the configuration of its infrastructure devices, but a customer is responsible for configuring their own guest operating systems, databases, and applications.

*Awareness & Training – AWS trains AWS employees, but a customer must train their own employees.

Customer Specific – Controls which are solely the responsibility of the customer based on the application they are deploying within AWS services.

Examples of customer specific controls include:

*Service and Communications Protection or Zone Security which may require a customer to route or zone data within specific security environments.

Question No : 34 - (Topic 1)

Which Reserved Instance (RI) provides the HIGHEST average cost savings compared to an On-Demand Instance?

- A. 1-year. No Upfront. Standard RI
- B. 1-year. All Upfront. Convertible RI
- C. 3-year. All Upfront, Standard RI
- D. 3-year. No Upfront. Convertible RI

Answer: C

Explanation: <https://aws.amazon.com/ec2/pricing/reserved-instances/pricing/>

Question No : 35 - (Topic 1)

A company is running an Amazon EC2 instance in a VPC.

Which of the following can the company use to route and filter incoming network requests for the EC2 instance?

- A. Route tables and web application firewalls
- B. Security groups and route tables
- C. Security groups and a network intrusion system
- D. Route tables and AWS Shield

Answer: B

Question No : 36 - (Topic 1)

Which tasks are responsibilities of AWS, according to the AWS shared responsibility model? (Select TWO.)

- A. Encrypt client-side data and authenticate data integrity.
- B. Manage customer data.
- C. Perform identity and access management.
- D. Provide physical security for Availability Zones.
- E. Patch the operating system of Amazon S3

Answer: A,D

Question No : 37 - (Topic 1)

A company is considering a migration from on premises to the AWS Cloud. The company's IT team needs to offload support of the workload. What should the IT team do to accomplish this goal?

- A. Use AWS Managed Services to provision, run, and support the company infrastructure.
- B. Build hardware refreshes into the operational calendar to ensure availability.
- C. Use Amazon Elastic Container Service (Amazon ECS) on Amazon EC2 instances.
- D. Overprovision compute capacity for seasonal events and traffic spikes to prevent downtime.

Answer: A

Question No : 38 - (Topic 1)

A user is a new AWS account owner who has no special access requirements. What should this user do with the AWS account root user access keys?

- A. Share the keys with all relevant internal users so that those users can programmatically access AWS services.
- B. Post the keys on GitHub to provide development teams with access to AWS services.
- C. Use the keys for access, but do not share the keys with anyone.
- D. Delete the keys and create IAM users.

Answer: C

Question No : 39 - (Topic 1)

Which of the following are advantages of the AWS Cloud? (Select TWO.)

- A. AWS management of user-owned infrastructure
- B. Ability to quickly change required capacity
- C. High economies of scale
- D. Increased deployment time to market
- E. Increased fixed expenses

Answer: B,D

Question No : 40 - (Topic 1)

A company wants to secure its consumer web application by using SSL/TLS to encrypt traffic.

Which AWS service can the company use to meet this goal?

- A. AWS WAF
- B. AWS Shield
- C. Amazon VPC
- D. AWS Certificate Manager (ACM)

Answer: D

Explanation: To enable HTTPS connections to your website or application in AWS, you need an SSL/TLS server certificate. For certificates in a Region supported by AWS Certificate Manager (ACM), we recommend that you use ACM to provision, manage, and deploy your server certificates.

Question No : 41 - (Topic 1)

Which AWS services provide high availability across multiple Availability Zones by default? (Select TWO.)

- A. Amazon EC2