

# Final Exam

The screenshot shows the AWS Academy Course Assessment interface. The browser address bar displays the URL: `awsacademy.instructure.com/courses/151339/assignments/1781550?module_item_...`. The left sidebar contains navigation links: Home, Modules, Discussions, Grades (with a notification badge), and Lucid (Whiteboard). The main content area is titled "Course Assessment" and includes a table with columns: Due, No Due Date, Points (100), and Submitting (an external tool). Below the table, a question is displayed within a whiteboard-like frame with a "KEYBOARD NAVIGATION" header. The question asks for the triad that highlights important aspects of information security within an organization, with four radio button options.

Course Assessment

Due	No Due Date	Points	100	Submitting	an external tool
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1. What is the triad that was originally developed to highlight the important aspects of information security within an organization?

- ☐ Confidentiality, integrity, and agility (CIA)
- ☐ Confidentiality, integrity, and availability (CIA)
- ☐ Visibility, agility, and automation (VAA)
- ☐ Controllability, auditability, and agility (CAA)

This screenshot shows the same AWS Academy Course Assessment interface as the first, but with the second question displayed. The question asks for two advantages of cloud computing, with five checkbox options. The interface elements, including the sidebar and the assessment table, are identical to the first screenshot.

Course Assessment

Due	No Due Date	Points	100	Submitting	an external tool
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2. What are advantages of cloud computing? (Select TWO.)

- ☐ Go global in weeks.
- ☐ Provision resources up front.
- ☐ Trade variable expense for fixed expense.
- ☐ Trade fixed expense for variable expense.
- ☐ Stop guessing capacity.

Course Assessment

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Home Modules Discussions Grades Lucid (Whiteboard)

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3. Which AWS service could an administrator use to securely control access to AWS resources for users?

- ☐ AWS Config
- ☐ AWS CloudTrail
- ☐ AWS Identity and Access Management (IAM)
- ☐ AWS CloudFormation

KEYBOARD NAVIGATION

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Home Modules Discussions Grades Lucid (Whiteboard)

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4. Which statement about multi-factor authentication (MFA) is true?

- ☐ MFA is used in place of your user name and password.
- ☐ MFA is enabled by default.
- ☐ MFA requires two or more factors to achieve authentication.
- ☐ MFA requires the use of a hardware device.

KEYBOARD NAVIGATION

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Home Modules Discussions Grades Lucid (Whiteboard)

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5. Which statement about service control policies (SCPs) is true?

- ☐ SCPs can restrict access to services, resources, or API actions.
- ☐ SCPs can be used to grant permissions.
- ☐ Restrictions from an SCP will be overridden if allowed elsewhere.
- ☐ SCPs cannot restrict access to member accounts.

KEYBOARD NAVIGATION

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Home Modules Discussions Grades Lucid (Whiteboard)

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6. What is a feature of the AWS Identity and Access Management (IAM) service?

- ☐ Information assurance obfuscation
- ☐ Protection against standards-based identity providers
- ☐ Decentralized management of users and access
- ☐ Temporary access through the use of roles

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7. What are the components of an AWS access key?

- ☐ Access key ID and public access key
- ☐ Access key ID and secret access key
- ☐ User name and password
- ☐ User name, password, and token

KEYBOARD NAVIGATION

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8. A company wants to improve their security and compliance tracking without creating additional work or needing additional employees. Which AWS service would help meet the company's needs?

- ☐ Elastic Load Balancing (ELB)
- ☐ AWS Shield
- ☐ Amazon Inspector
- ☐ AWS Identity and Access Management (IAM)

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9. An administrator set up a virtual private cloud (VPC). They want to increase security and create a virtual firewall for their Amazon EC2 instances to control inbound and outbound traffic. Which security feature would meet their needs?

- ☐ Elastic Load Balancing (ELB)
- ☐ Security groups
- ☐ Subnets
- ☐ Internet gateway

KEYBOARD NAVIGATION

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10. A company has experienced significant attrition in the last year and is concerned about inconsistencies in protecting their network. An administrator has created best practices to help create consistency in protecting their network. Which option is NOT a best practice for protecting a network?

- ☐ Use subnets in one Availability Zone.
- ☐ Control traffic at all layers.
- ☐ Automate network protection.
- ☐ Implement inspection and filter traffic at the application level.

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11. An administrator wants to increase security by creating an environment where traffic to and from Amazon EC2 instances can be controlled in a stateful manner. Which security feature would meet their needs?

- ☐ Elastic Load Balancing (ELB)
- ☐ Security groups
- ☐ Network access control lists (ACLs)
- ☐ Subnets

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Home Modules Discussions Grades Lucid (Whiteboard)

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12. A company wants to outsource their IT network. However, they want to maintain control over their networking resources, to include selecting IP address ranges, creating subnets, and configuring route tables and network gateways. Which AWS service would provide these abilities?

- ☐ Amazon VPC
- ☐ Amazon Cognito
- ☐ AWS CloudTrail
- ☐ Amazon S3

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13. A company requires that data stored in AWS be encrypted at rest. Which approach would achieve this requirement?

- ☐ Use S3 Versioning and multi-factor authentication (MFA) delete when storing data in Amazon S3.
- ☐ Encrypt the volume by using AWS Key Management Service (AWS KMS) when storing data in Amazon EBS.
- ☐ Use only Amazon EBS-optimized EC2 instances when storing data in Amazon EBS.
- ☐ Use an EC2 instance store.

KEYBOARD NAVIGATION

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14. A company needs to store sensitive documents in an Amazon S3 bucket. The documents must be encrypted at rest at their destination, and the company wants to manage the underlying keys that are used for encryption. Which method could they use for this purpose?

- ☐ Server-side encryption with customer-provided keys
- ☐ Client-side encryption with Amazon Macie
- ☐ Client-side encryption
- ☐ Server-side encryption with Amazon S3 managed keys

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15. Which statement about Amazon S3 Block Public Access is true?

- ☐ The feature provides two ways to manage object retention: retention periods and legal holds.
- ☐ The feature provides protection for a fixed amount of time or indefinitely.
- ☐ The feature stores objects by using a write-once-read-many (WORM) model.
- ☐ The feature provides settings for access points, buckets, and accounts to help with the management of public access to Amazon S3 resources.

KEYBOARD NAVIGATION



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16. A company wants to establish a secure solution for its workforce and machine identities that require secrets, such as passwords to third-party applications, with automatic rotation. Which AWS service is the best solution for the company to store and use secrets securely?

- ☐ AWS Certificate Manager Private Certificate Authority
- ☐ AWS Key Management Service (AWS KMS)
- ☐ Amazon Macie
- ☐ AWS Secrets Manager

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17. Which service uses machine learning to automatically discover, classify, and protect sensitive data in AWS?

- ☐ AWS Certificate Manager (ACM)
- ☐ AWS Key Management Service (AWS KMS)
- ☐ Amazon Macie
- ☐ AWS Secrets Manager

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18. Which service can be configured to provide logging about storage use?

- ☐ AWS CloudTrail
- ☐ Elastic Load Balancing (ELB)
- ☐ Amazon VPC
- ☐ Amazon S3

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19. An auditor is reviewing logs during a security audit. What is NOT a common log element that would be available to them?

- ☐ Identity of the resources that were accessed
- ☐ Name of the resource owner
- ☐ Date and time of the event
- ☐ Origin or source of the event

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20. Which statement is true about using AWS CloudTrail and Amazon CloudWatch together?

- ☐ These services cannot log the identity of a user, group, or role that has performed an action.
- ☐ Custom CloudTrail alarms can be configured for specific CloudWatch events.
- ☐ Custom CloudWatch alarms can be configured for specific CloudTrail events.
- ☐ Resource and application performance can be monitored, but user, group, or role actions cannot be monitored.

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21. Elastic Load Balancing (ELB) captures and compresses logs. Where does ELB store these logs?

- ☐ Virtual private cloud (VPC)
- ☐ Amazon EC2 instance
- ☐ Amazon DynamoDB database
- ☐ Amazon S3 bucket

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22. Which statement about Amazon CloudWatch is true?

- ☐ It uses threat intelligence feeds to identify malicious activity.
- ☐ It is a vulnerability management service that continuously scans your AWS workloads for vulnerabilities.
- ☐ It automatically protects an enterprise network from a distributed denial of service (DDoS) attack.
- ☐ It provides the ability to create alarms that watch metrics and send notifications.

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23. Which part of the resolution and recovery phase of incident response involves isolating the incident and performing a deep dive to discover the issue?

- ☐ Forensic isolation
- ☐ Incident closure
- ☐ Deploying the fix
- ☐ Staging a fix

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24. A cloud administrator wants the ability to automatically discover and scan Amazon EC2 instances for vulnerabilities. Which service would provide that capability?

- ☐ AWS Config
- ☐ Amazon GuardDuty
- ☐ Amazon CloudWatch
- ☐ Amazon Inspector

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25. A cloud administrator wants to be able to rapidly launch as many copies of a function as needed to scale to the rate of incoming events. Which AWS service can provide this capability?

- ☐ AWS Config
- ☐ Amazon CloudWatch
- ☐ AWS Lambda
- ☐ Amazon EC2 Auto Scaling

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