

Module 7 Knowledge Check || AWS Storage || AWS Academy | AWS cloud foundations| Amazon AWS

Module 7 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

1. True or False? Amazon Simple Storage Service (Amazon S3) is an object storage suitable for the storage of flat files like Microsoft Word documents, photos, etc.

☒ True

☐ False

Number correct: 0 out of 0

0:08 / 1:42

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Module 7 Knowledge Check

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2. Amazon S3 replicates all objects _____. (Select the best answer)

☐ on multiple volumes within an Availability Zone

☒ in multiple Availability Zones within the same Region

☐ across multiple Regions for higher durability

☐ on multiple S3 buckets

Number correct: 1 out of 1

0:16 / 1:42

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Module 7 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

3. Which of the following can be used as a storage class for an S3 object lifecycle policy? (Choose three)

- ☒ S3 - Standard Access
- ☐ AWS Storage Gateway
- ☒ S3 - Infrequent Access
- ☒ Simple Storage Service Glacier
- ☐ S3 - Reduced Redundancy Storage
- ☐ Amazon Dynamo DB

Number correct: 2 out of 2

0:30 / 1:42

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Module 7 Knowledge Check

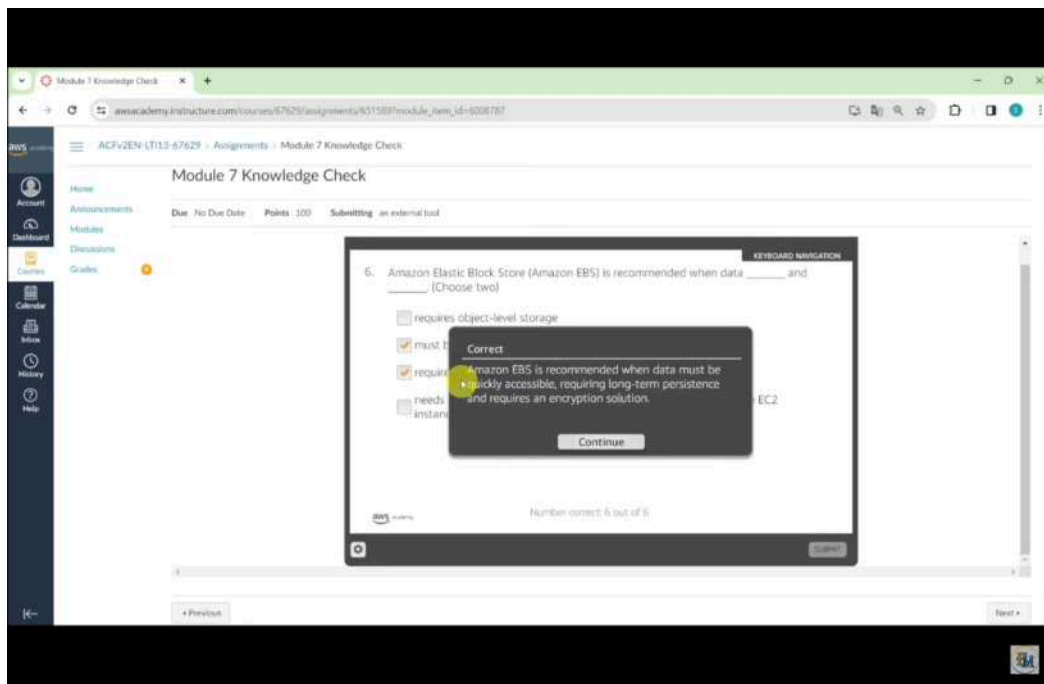
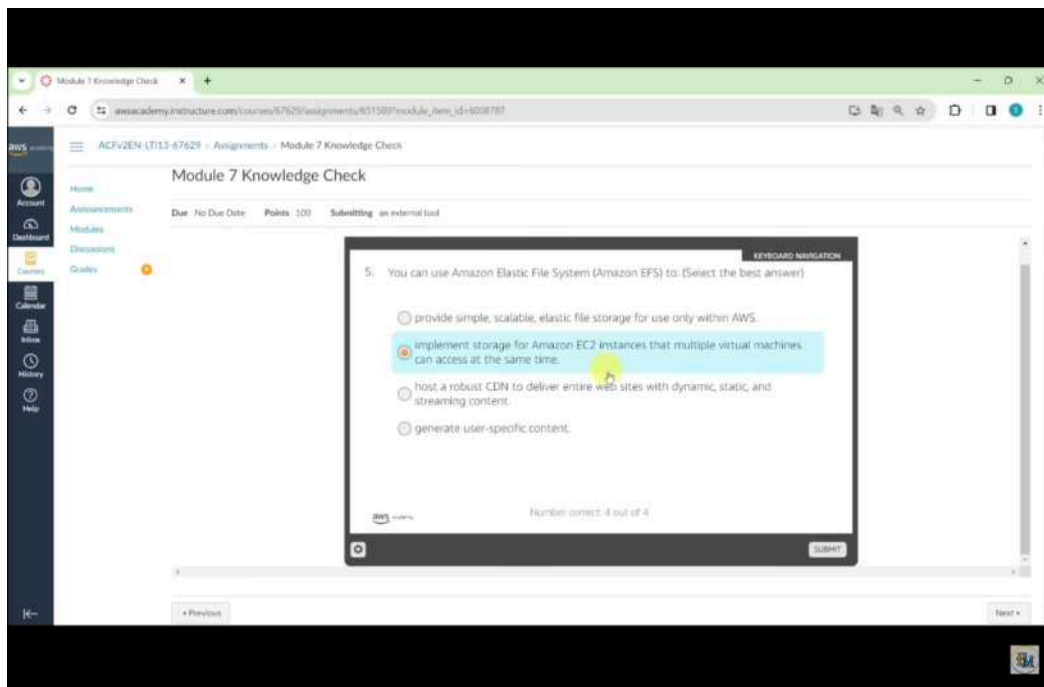
Due: No Due Date Points: 100 Submitting: an external tool

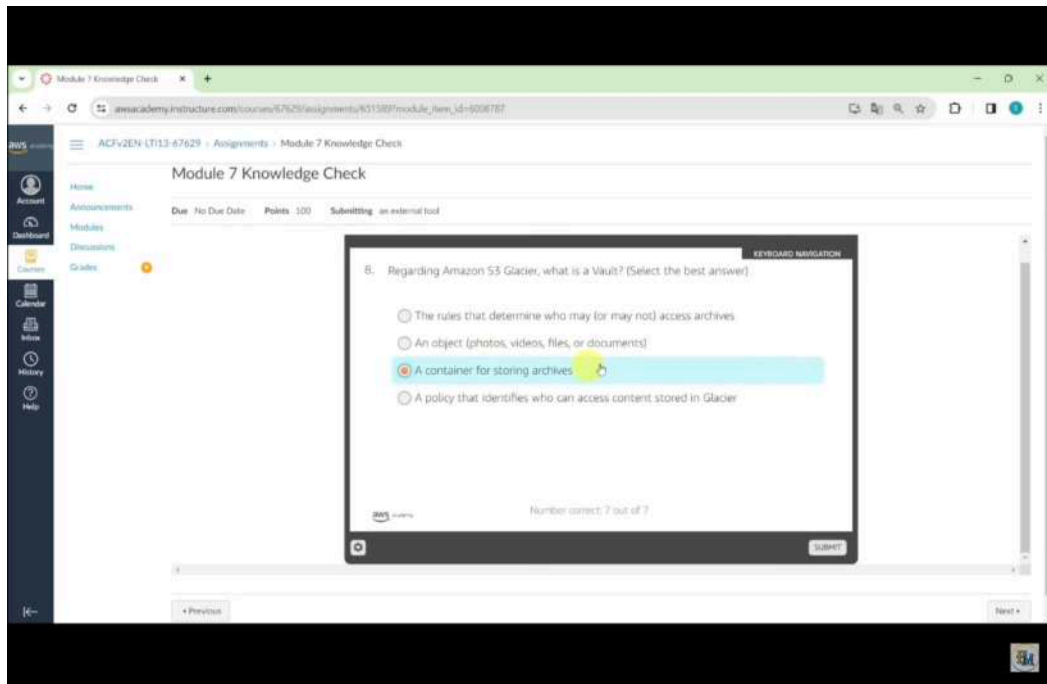
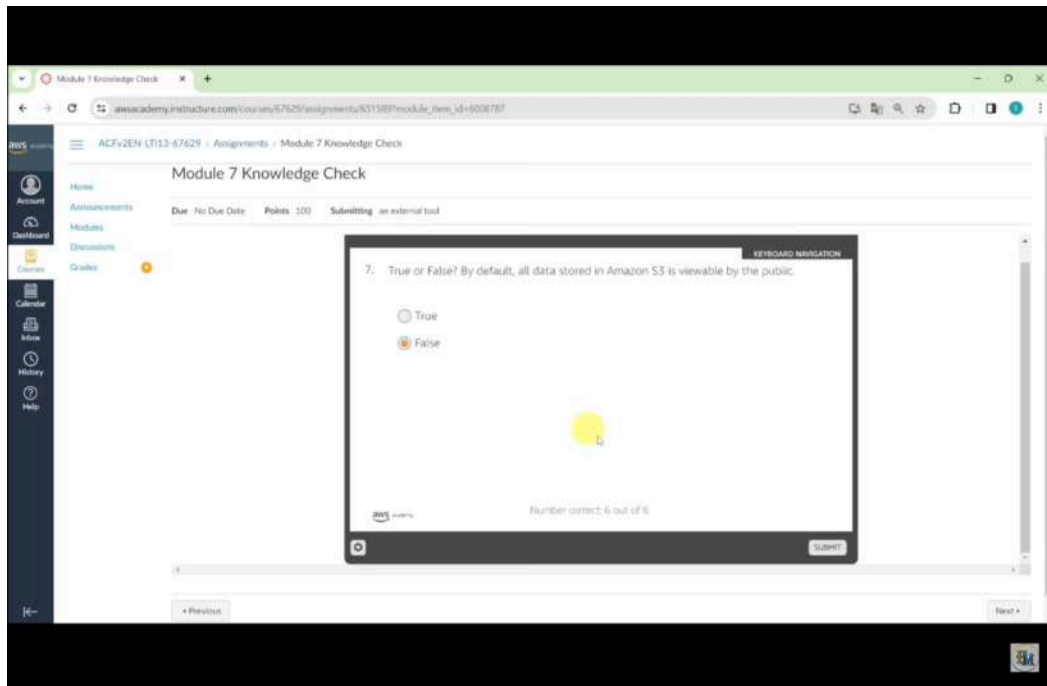
4. The name of an S3 bucket must be unique _____. (Select the best answer)

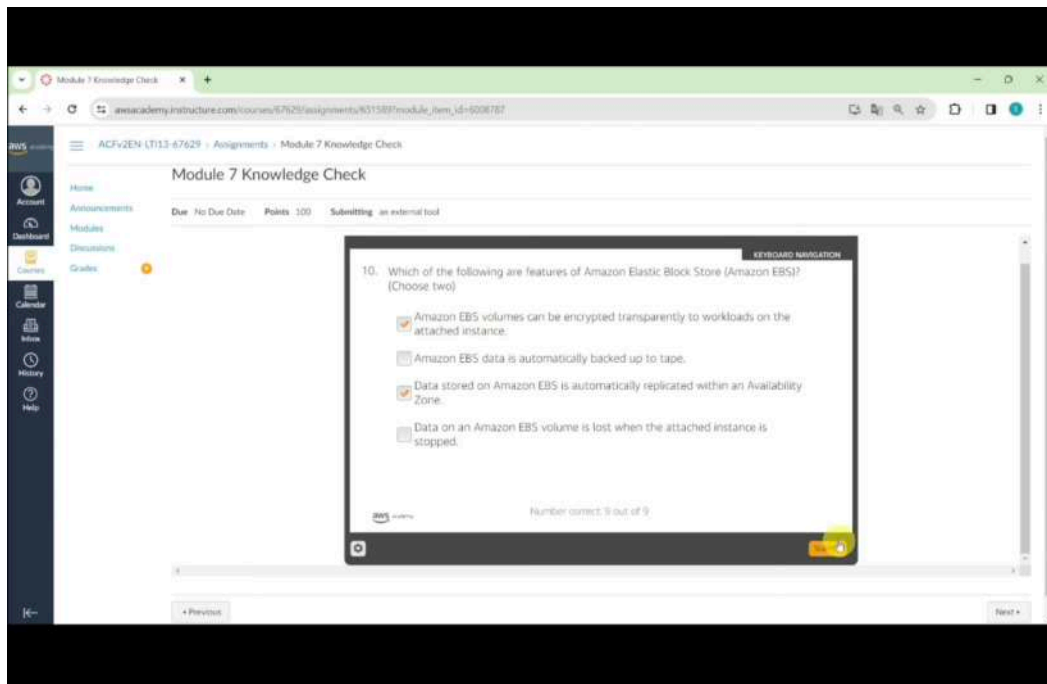
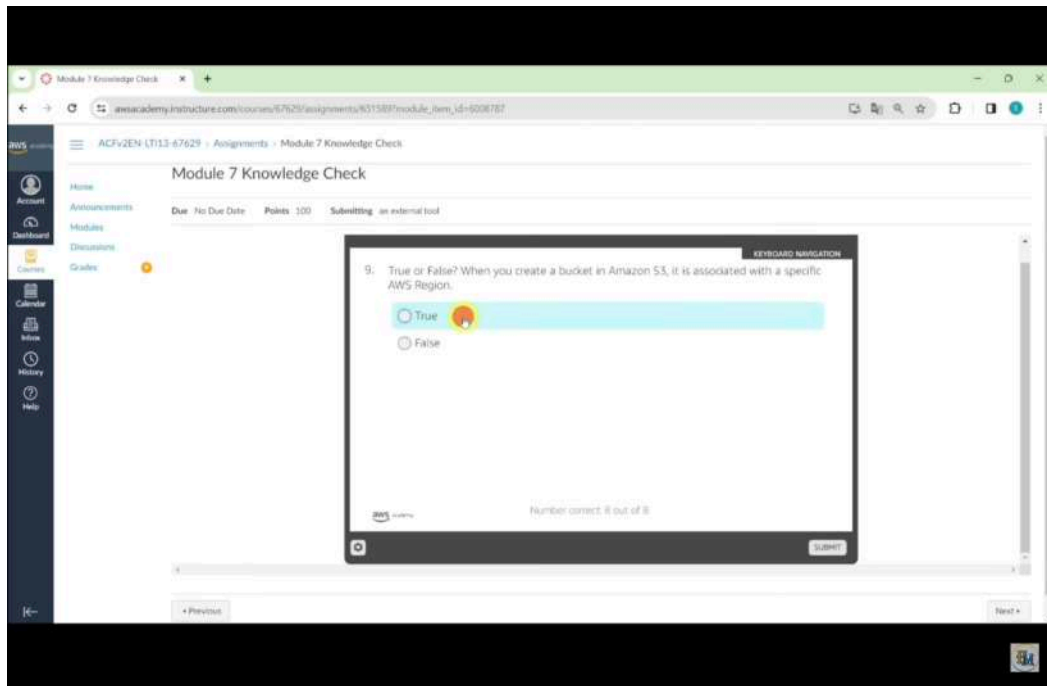
- ☒ worldwide across all AWS accounts
- ☐ within a Region
- ☐ across all your AWS accounts
- ☐ within your AWS account

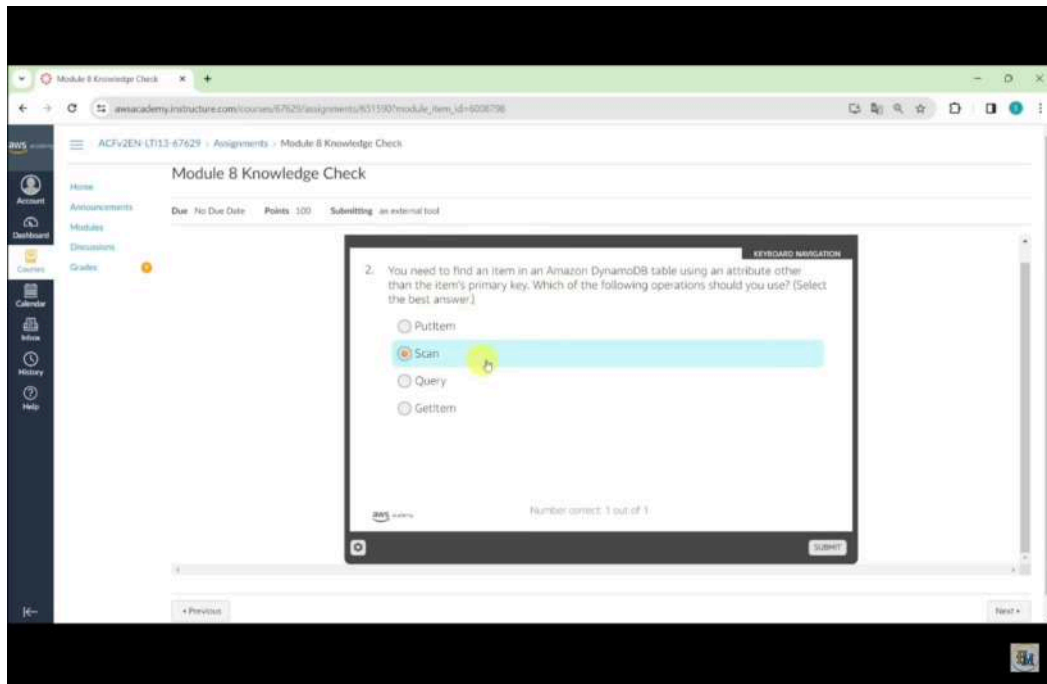
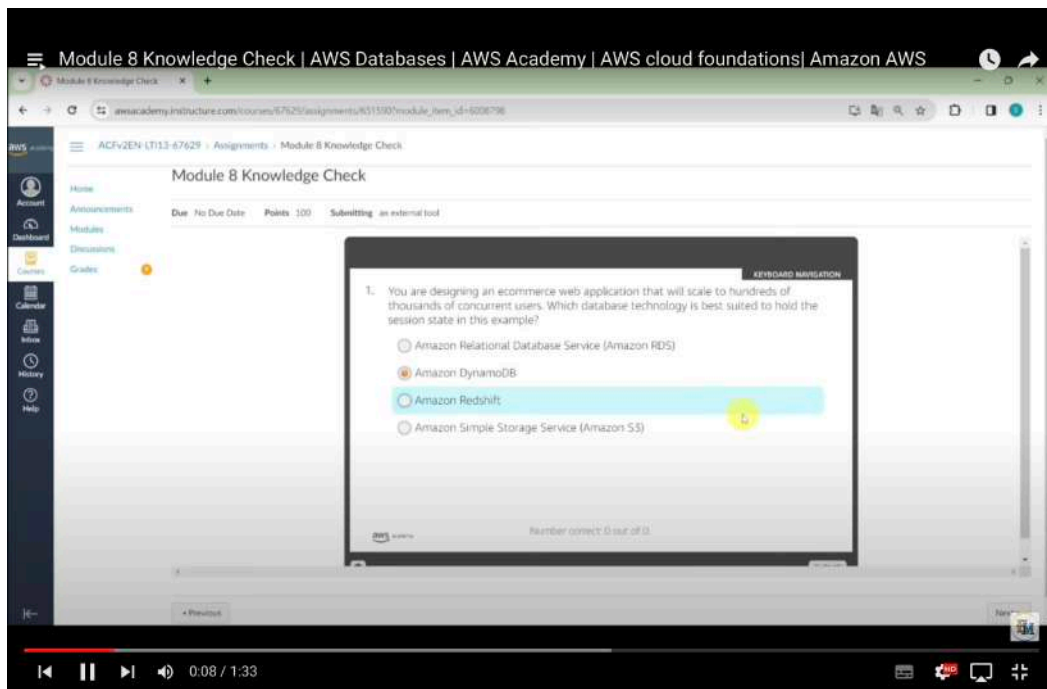
Number correct: 1 out of 1

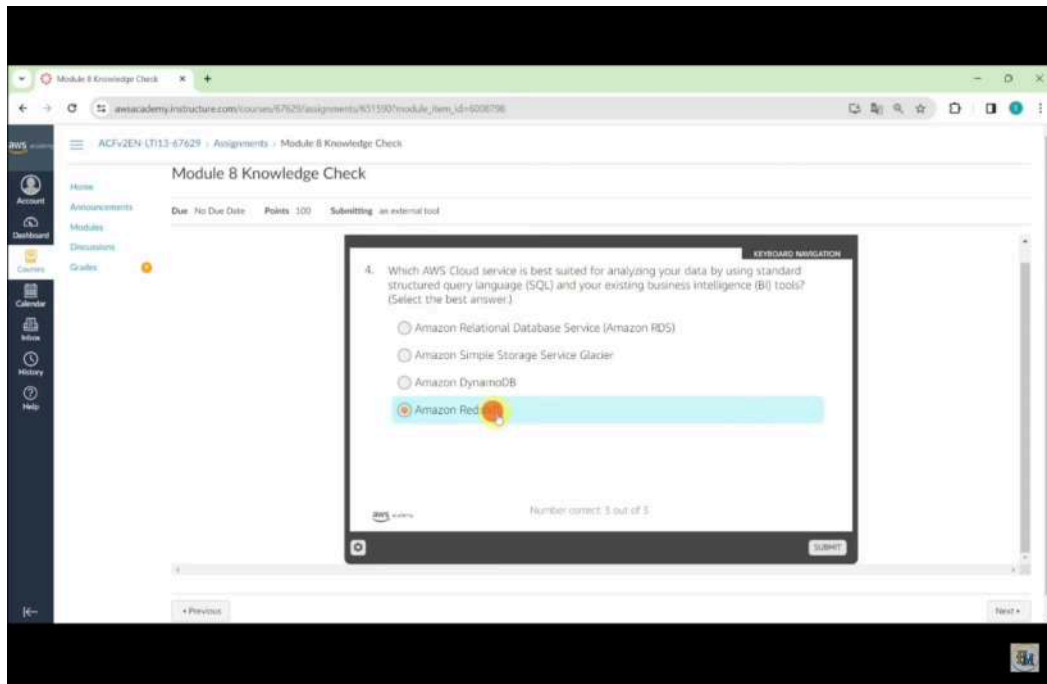
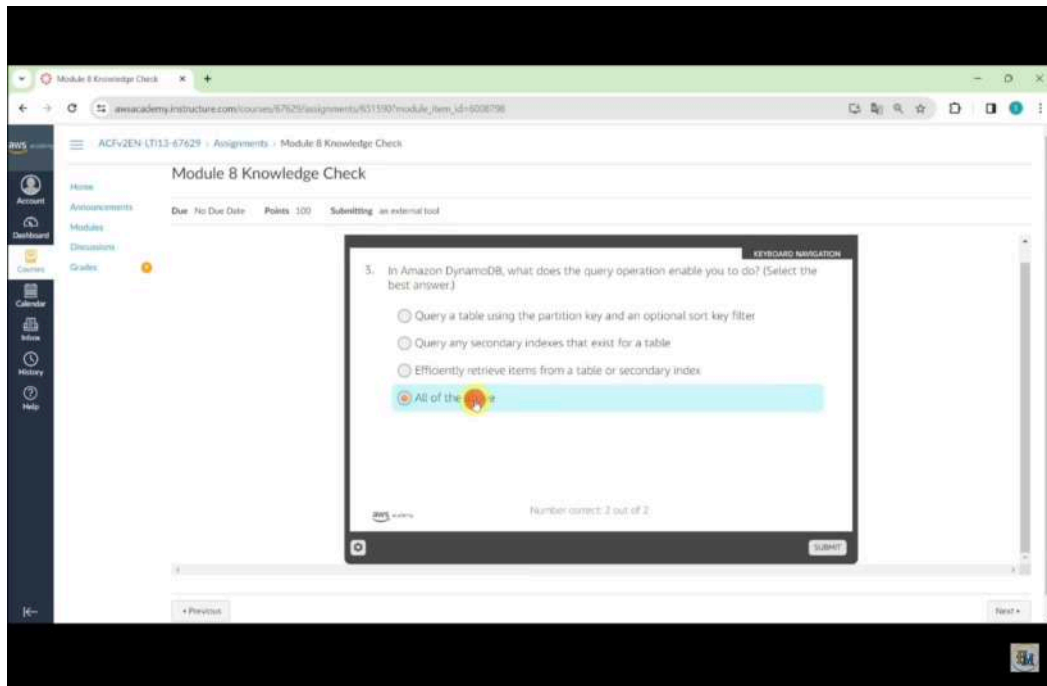
0:38 / 1:42

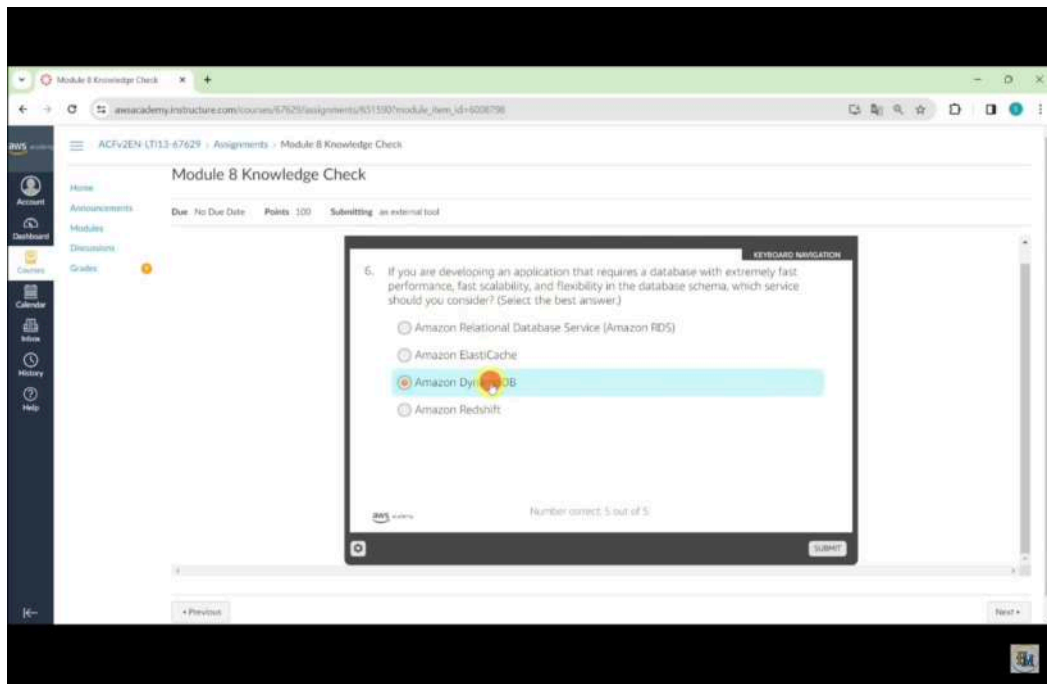
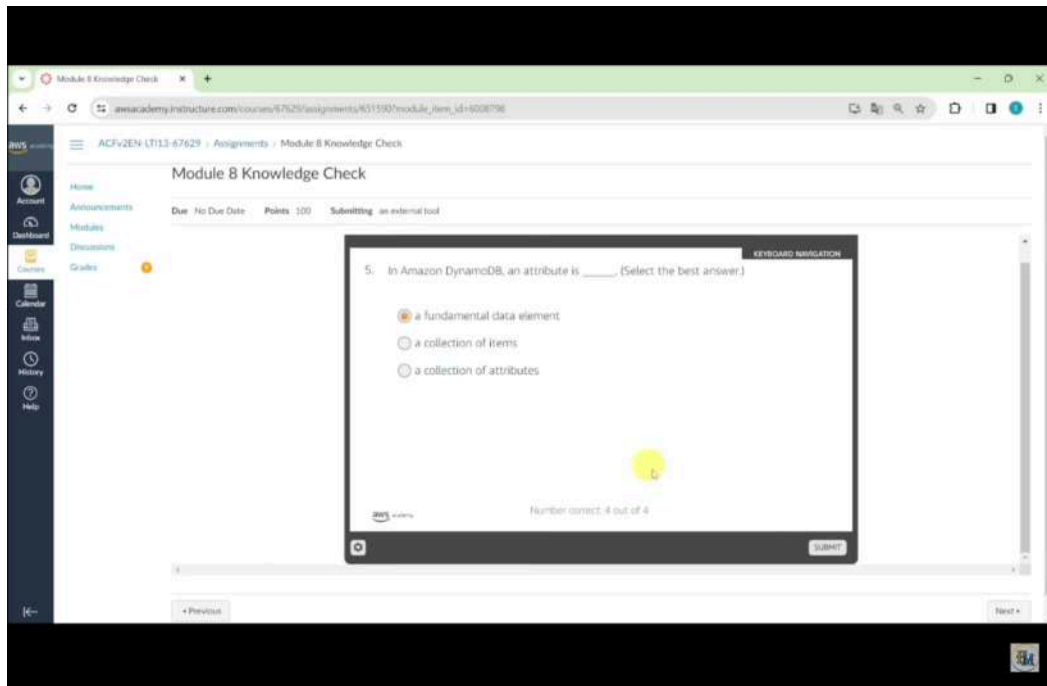


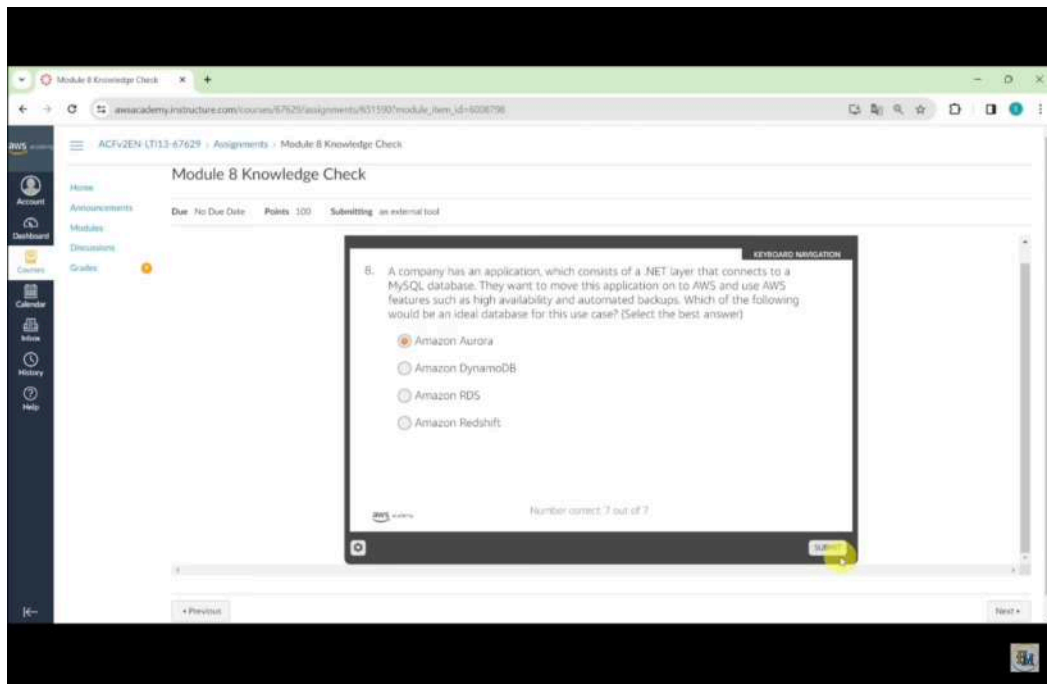
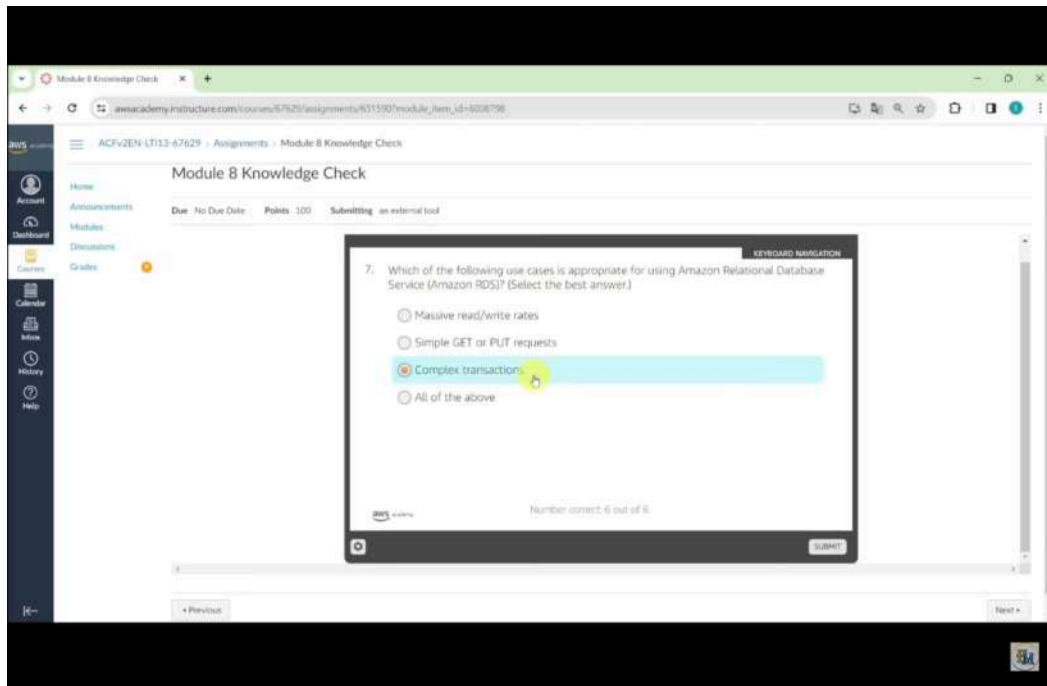


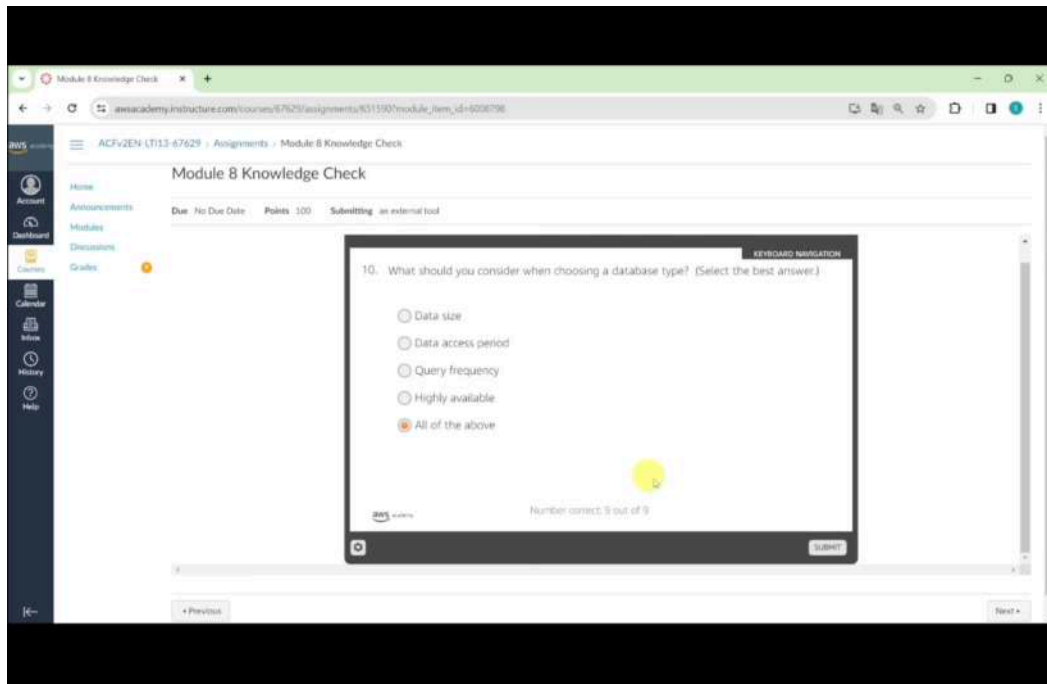
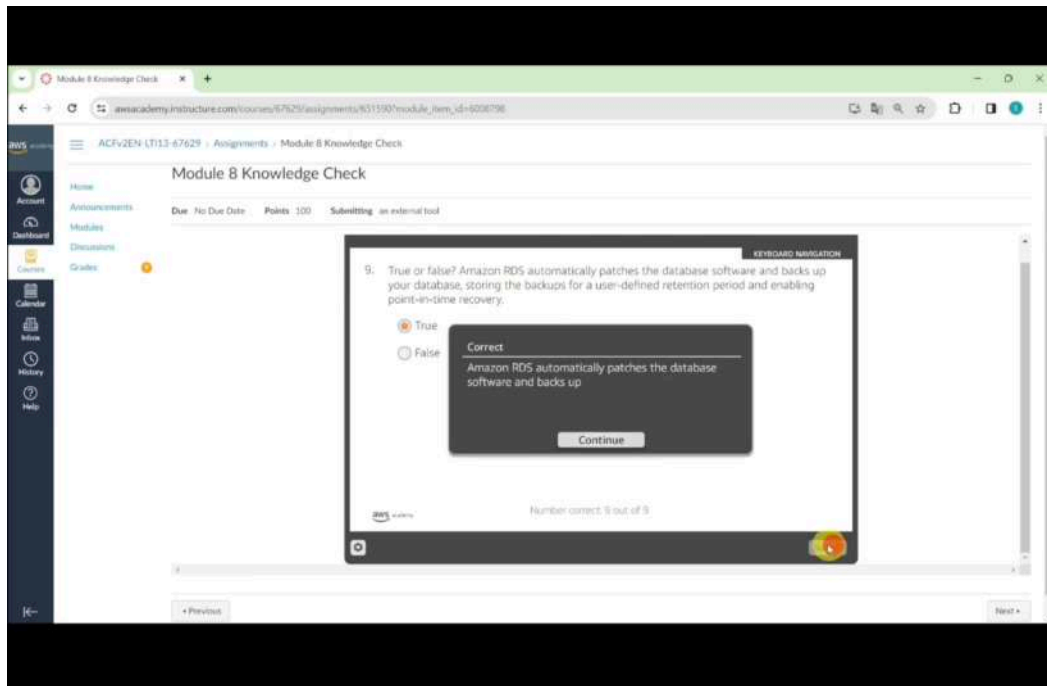


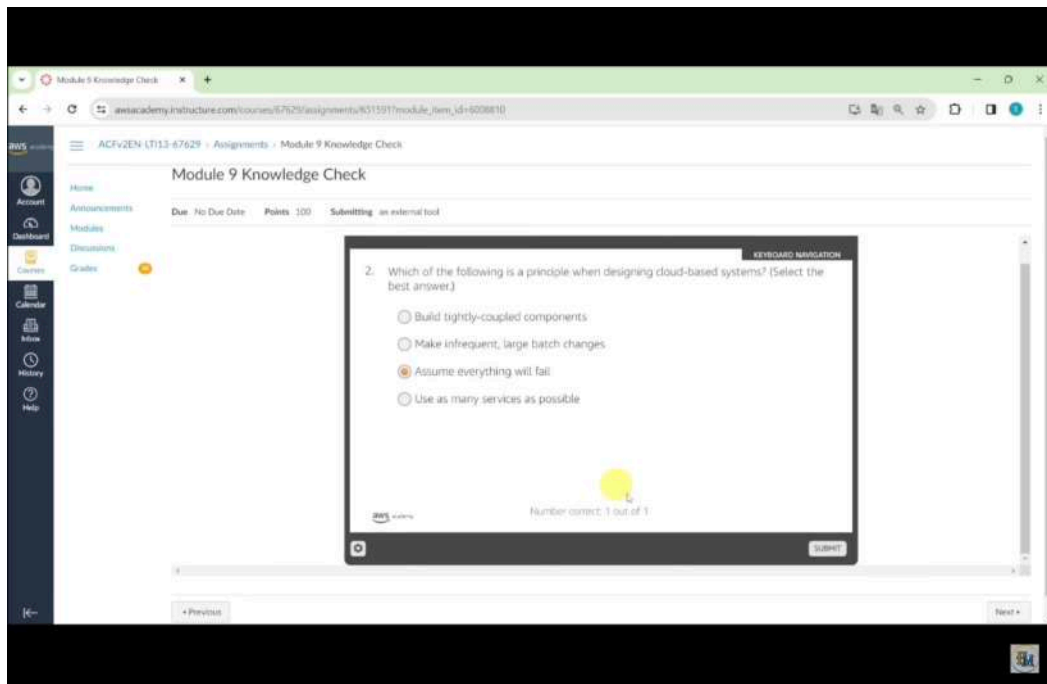
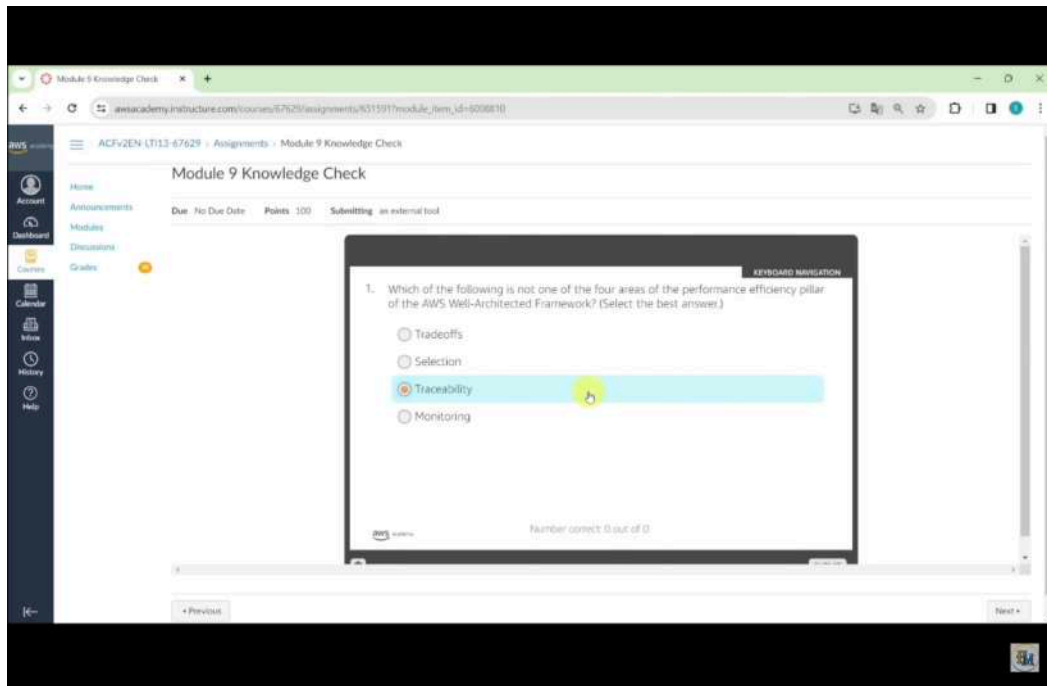


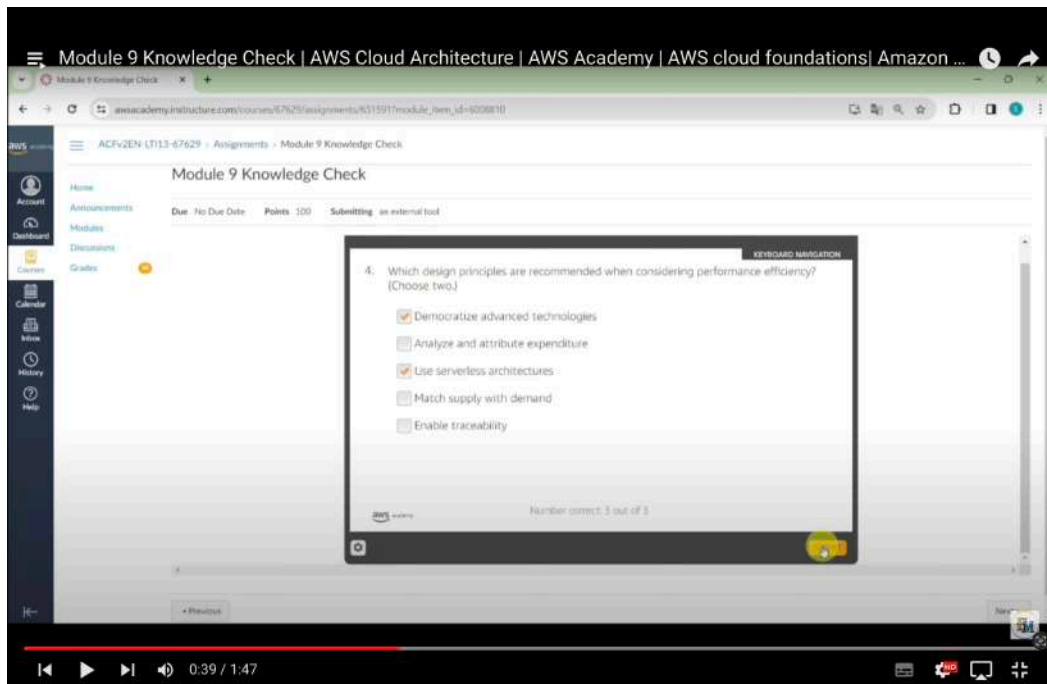
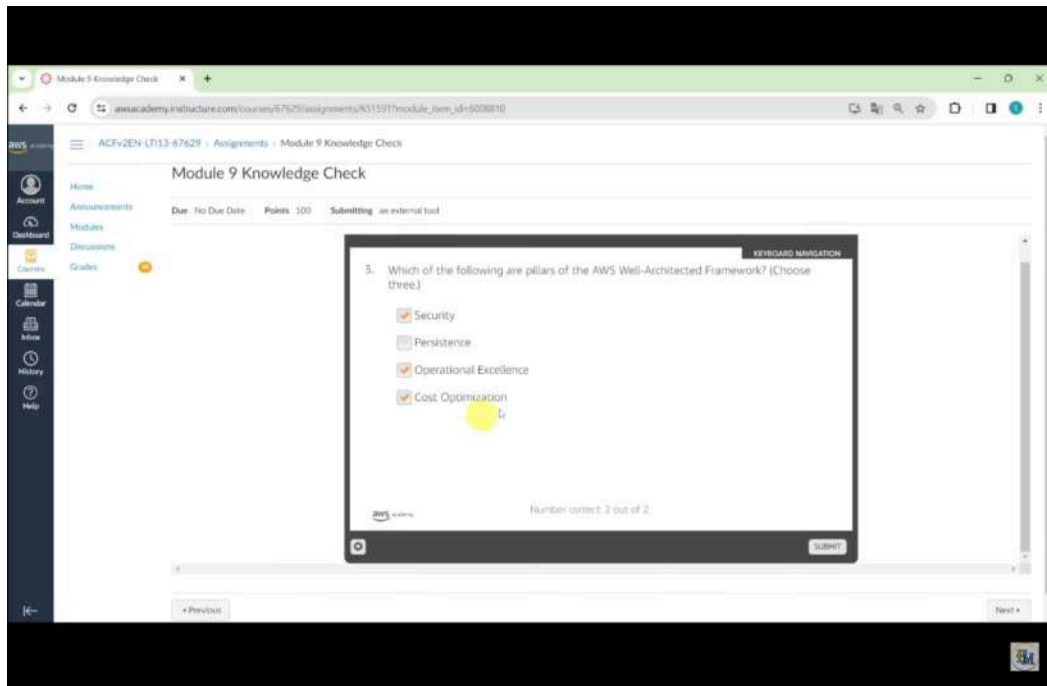


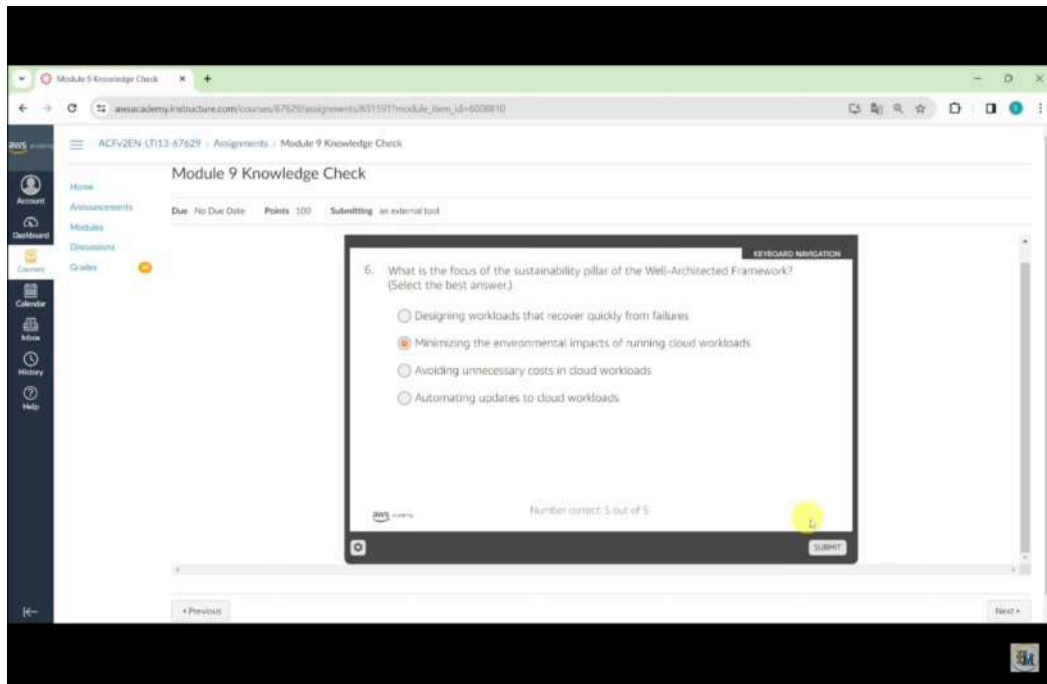
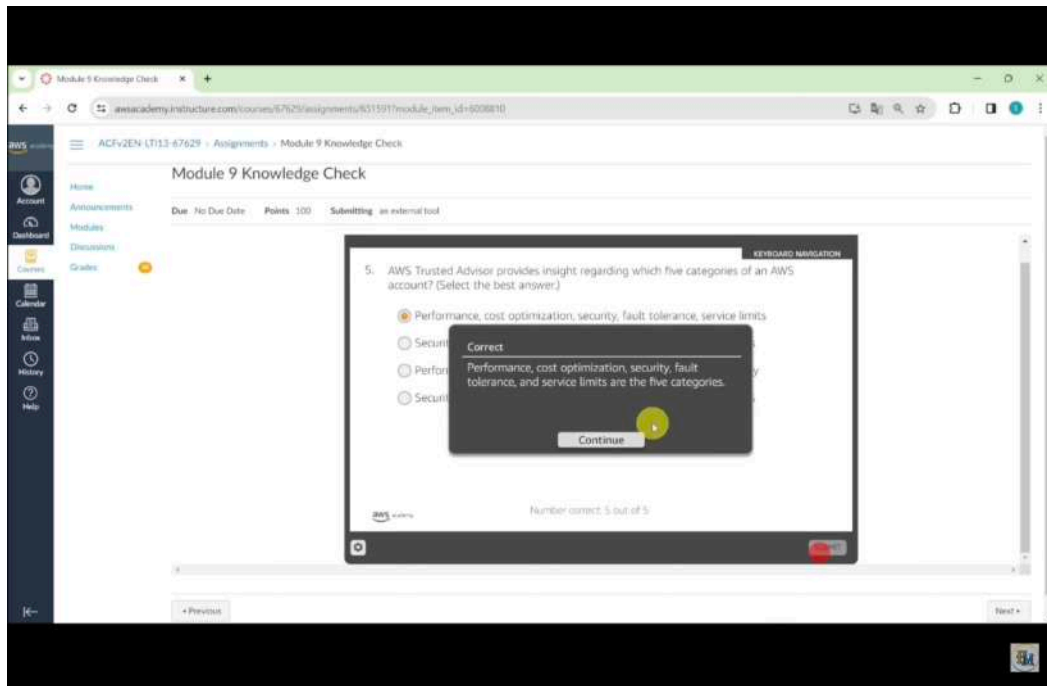


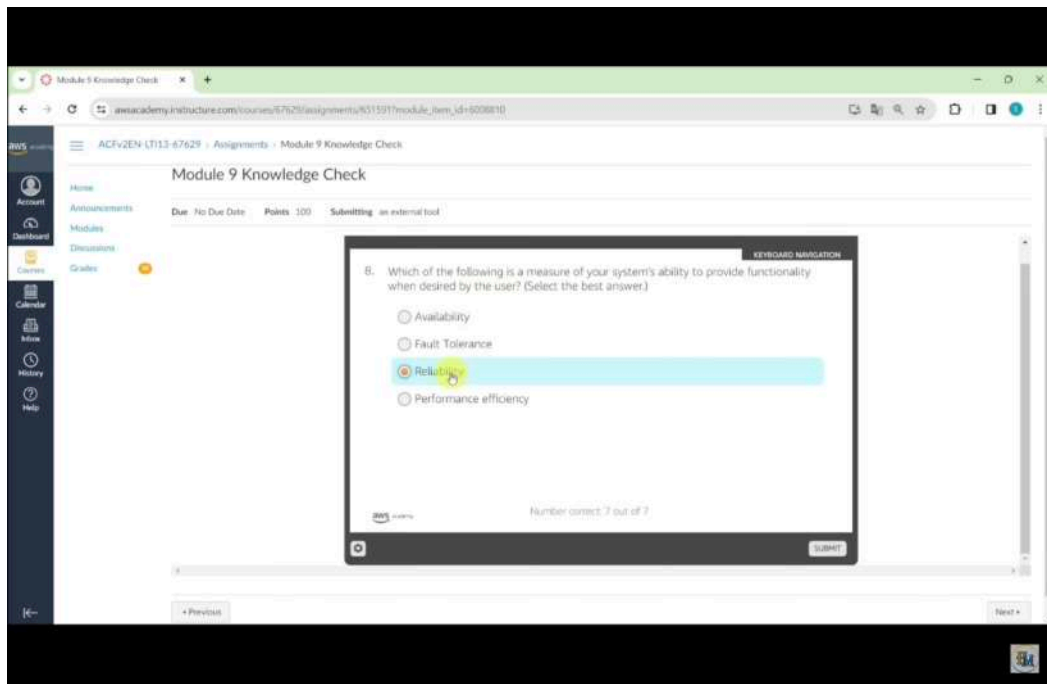
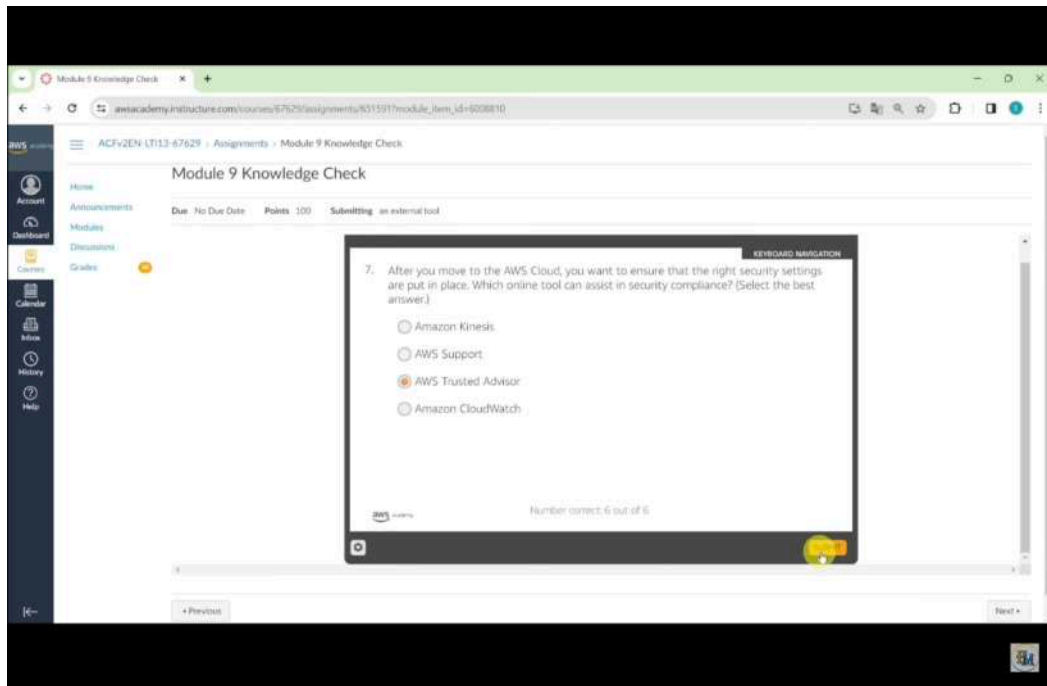


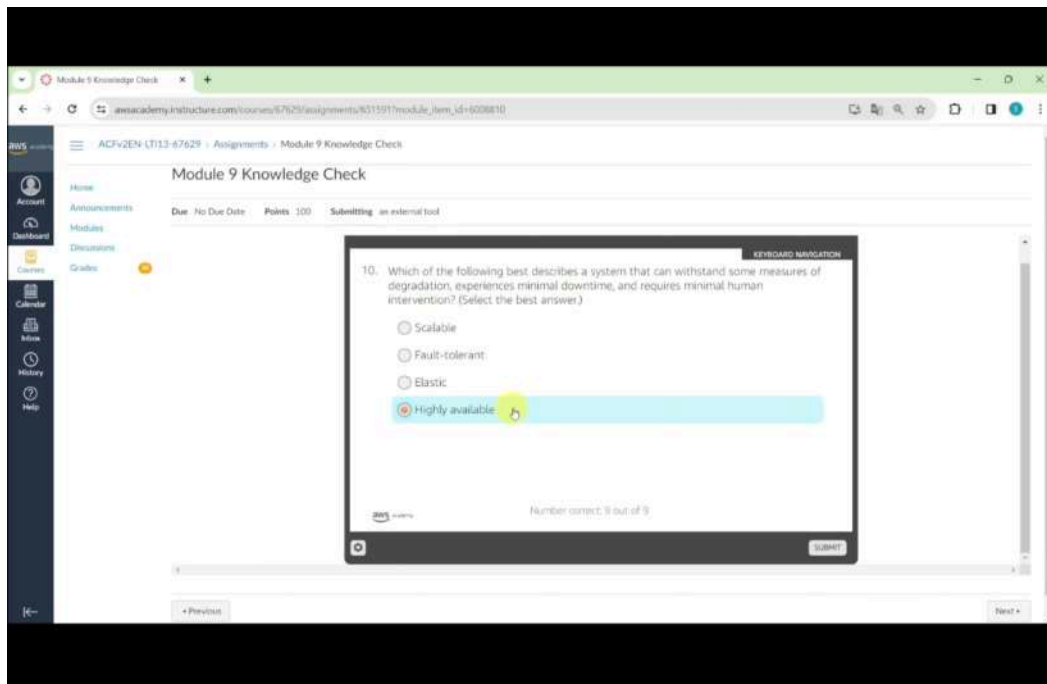
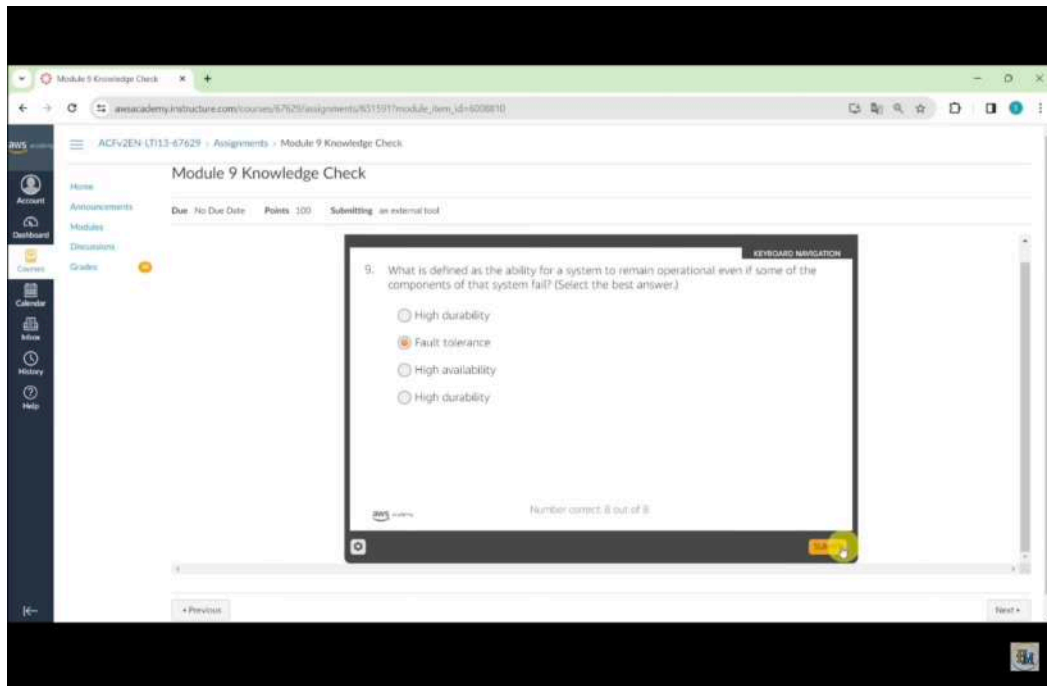


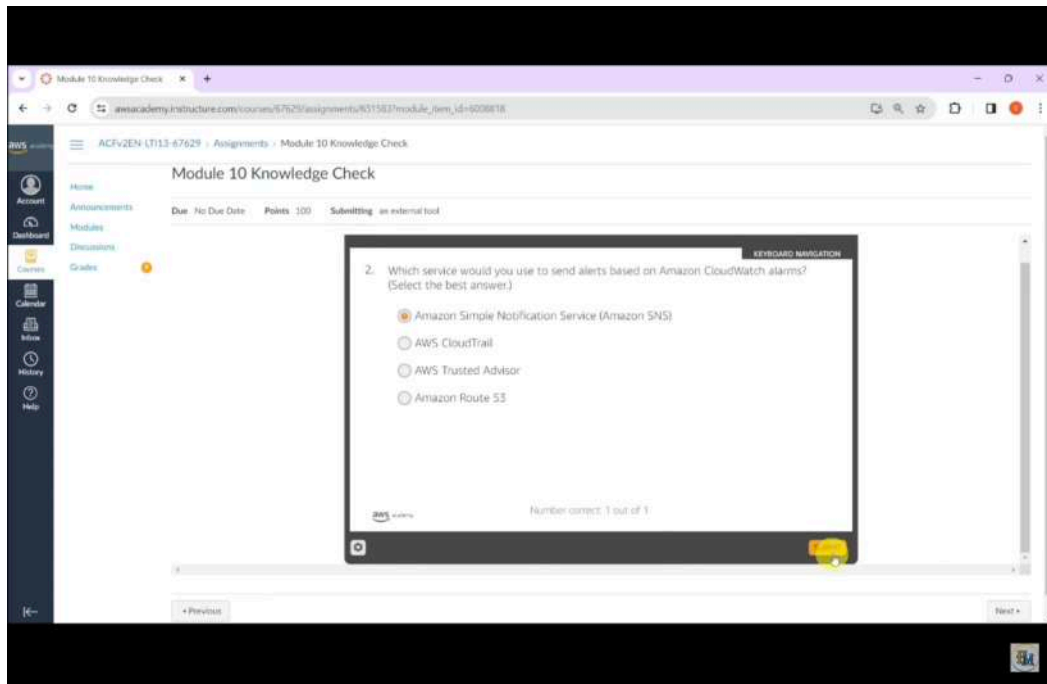
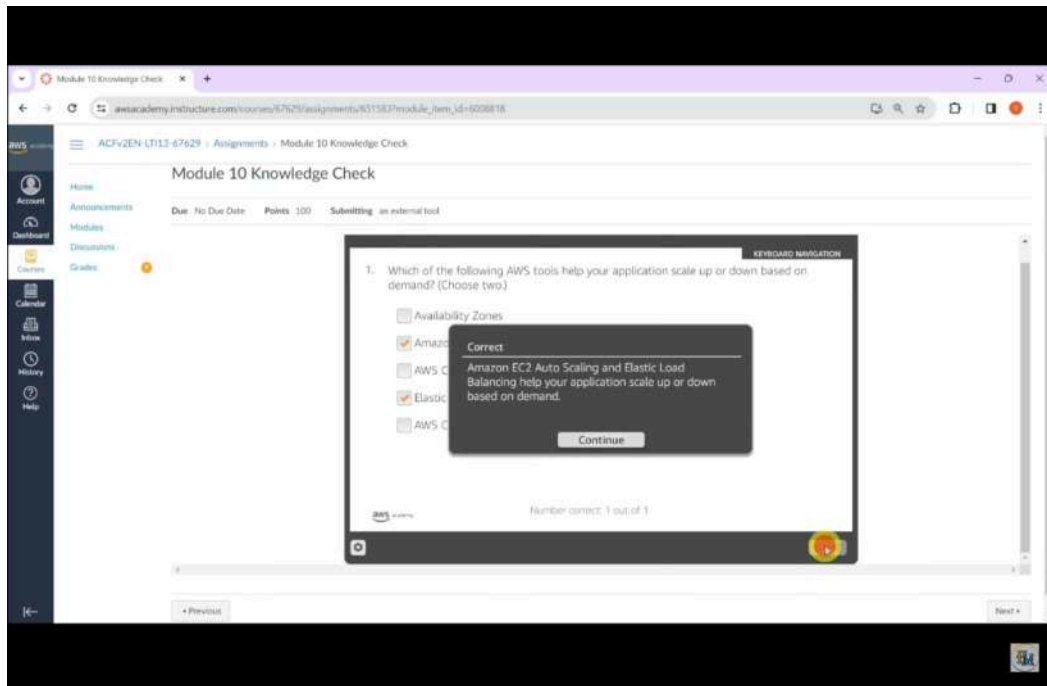


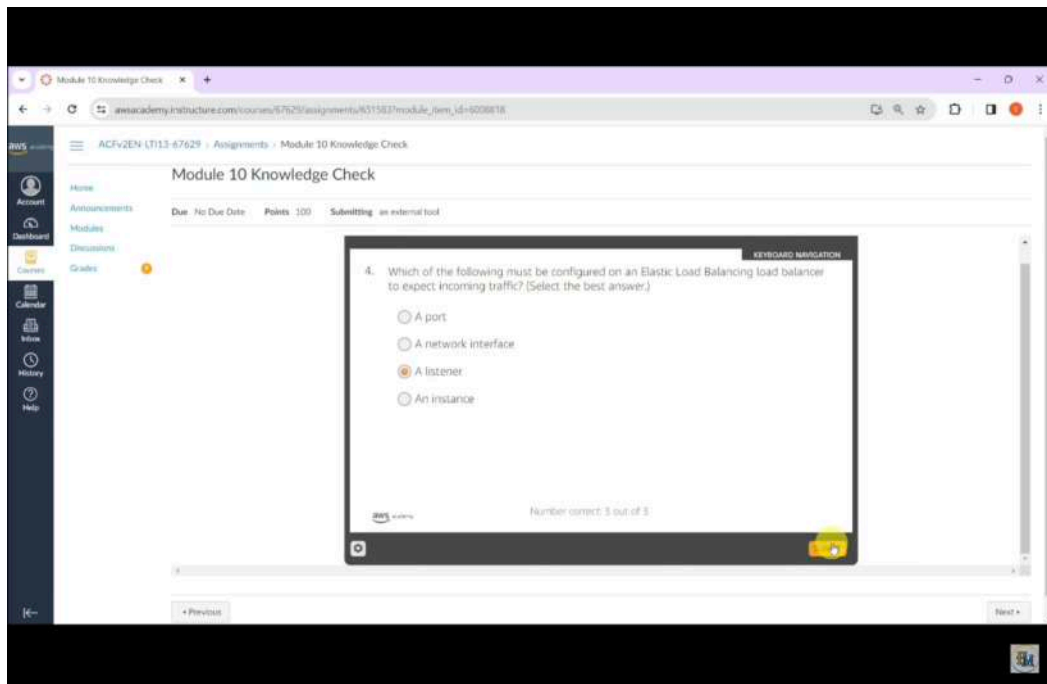
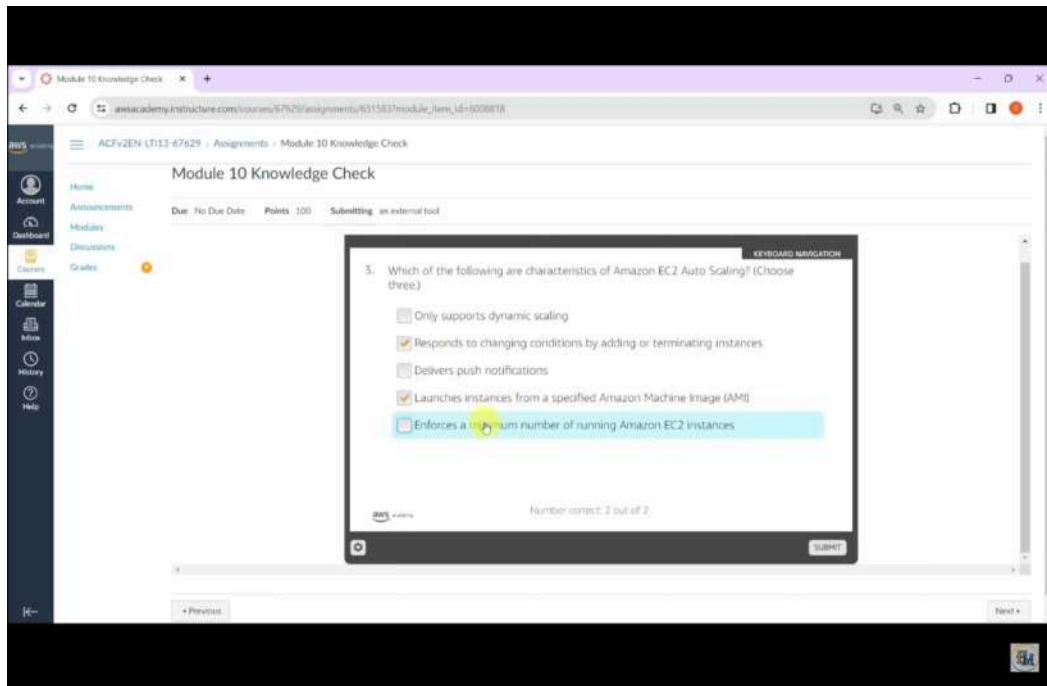


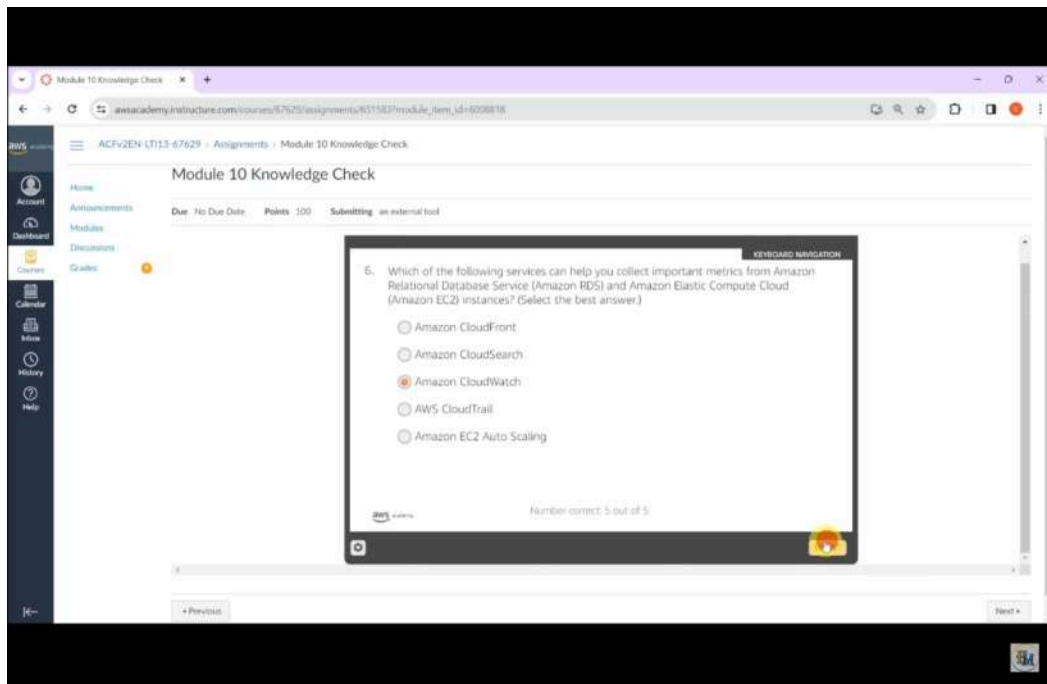
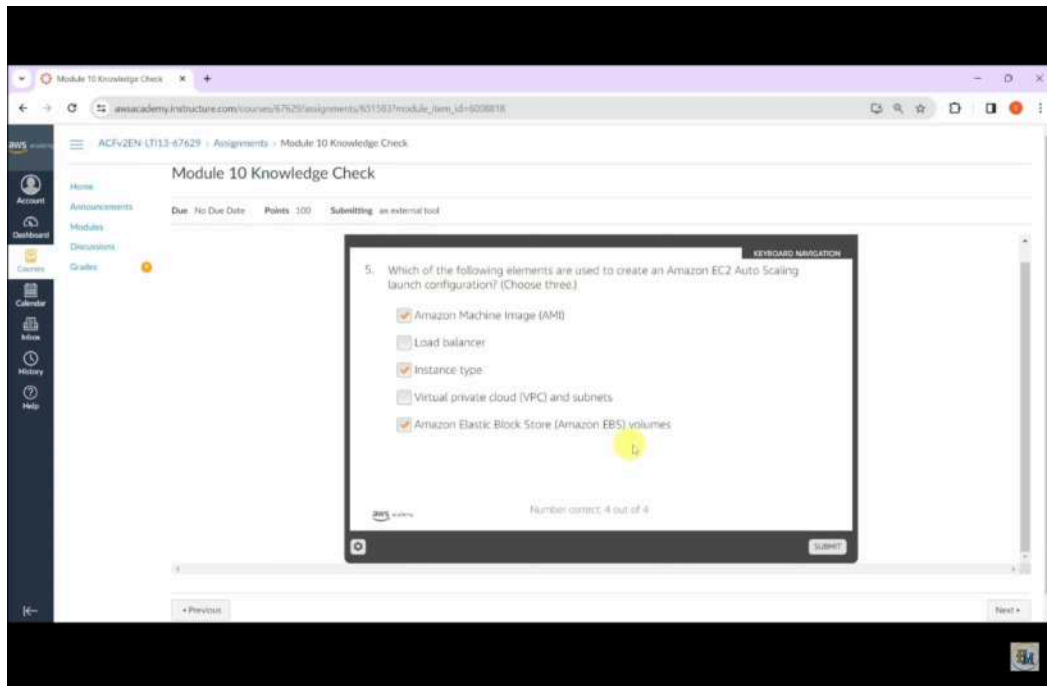


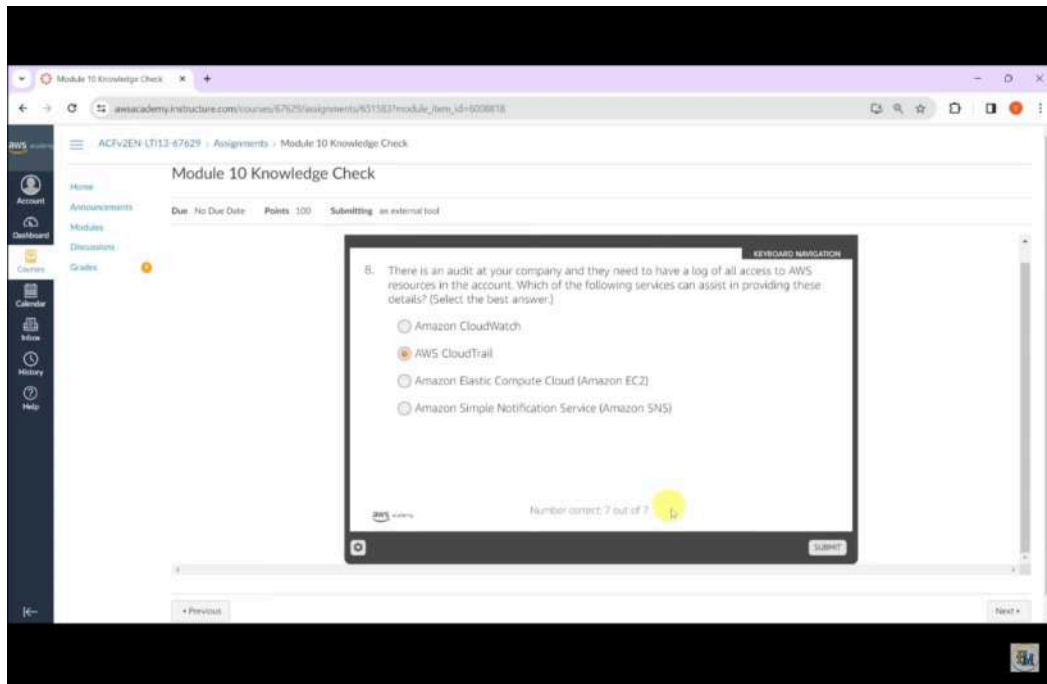
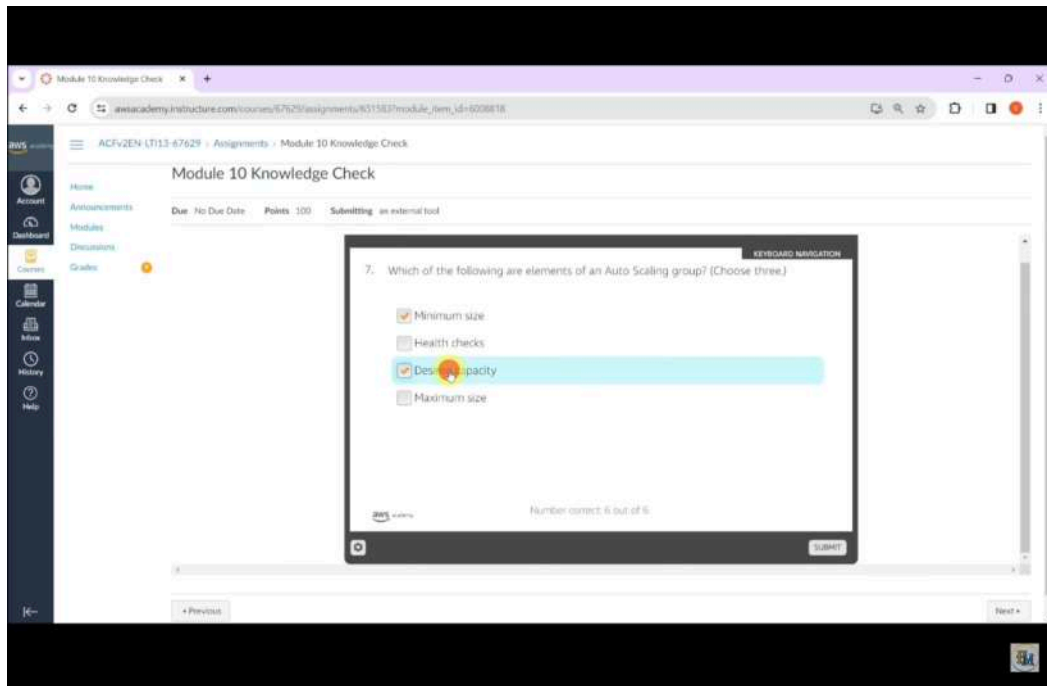


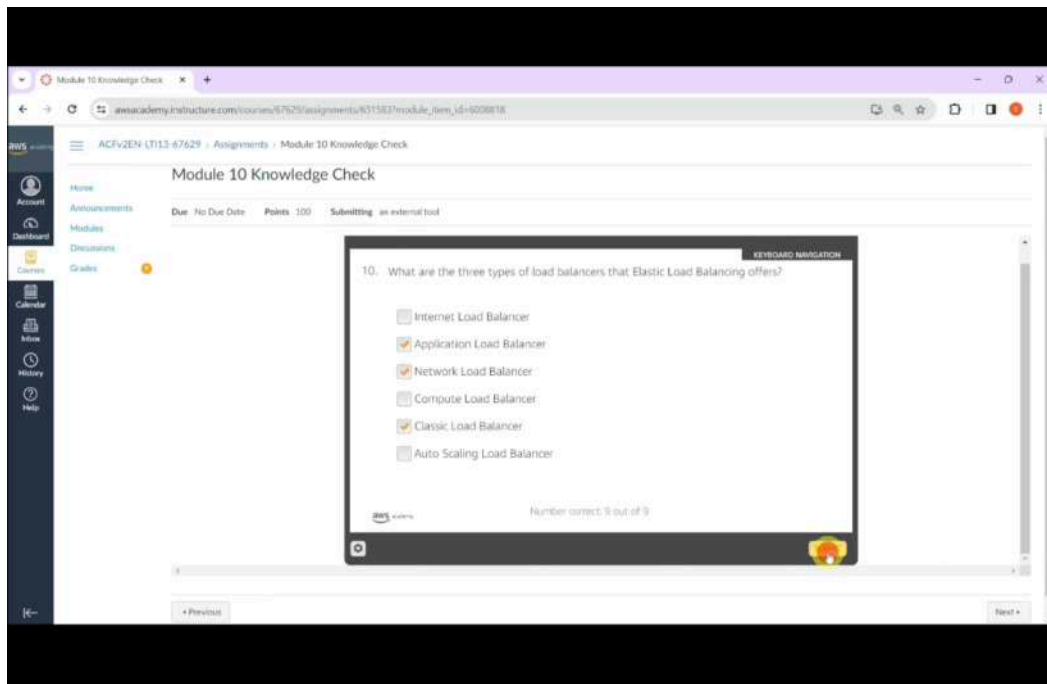
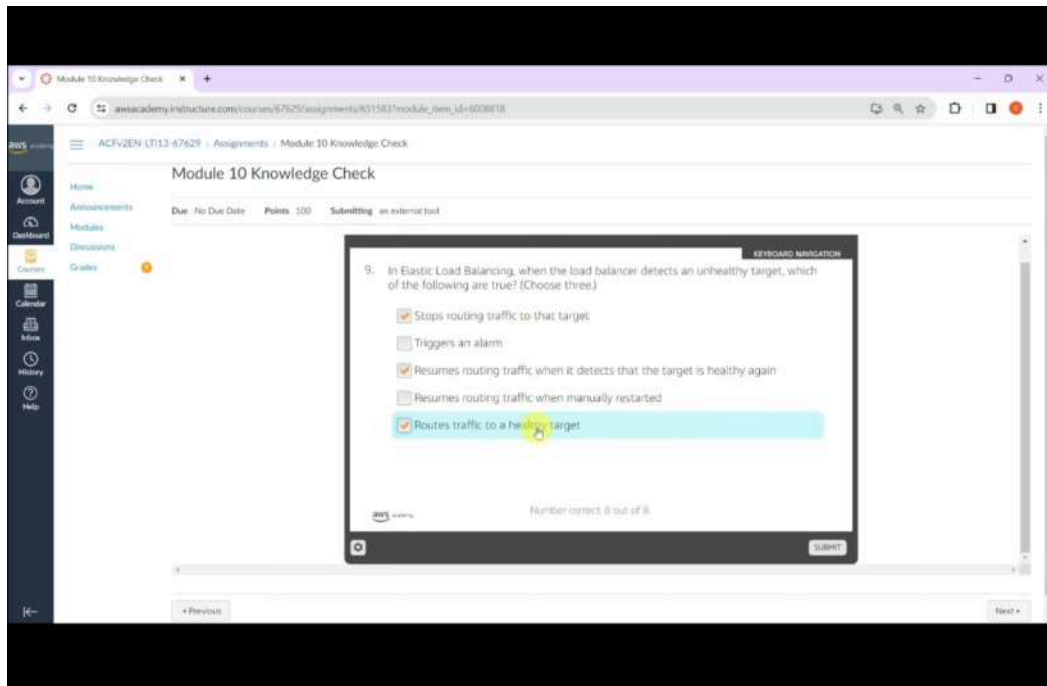












Module 2 Knowledge Check Answers | Introducing Cloud Architecting | AWS Academy Cloud Architecting

awsacademy.instructure.com/courses/59453/assignments/561758/module_item_id=5239060

ACA2EH-59453 > Assignments > Module 2 Knowledge Check

Module 2 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

Submission
May 10 at 10:29am
[Submission Details](#)
Grade: 100 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

1. What is the best definition of cloud architecture?

- ☐ Combining frontend and backend software and components to create highly available applications and services
- ☒ Applying features and services to meet the needs of an organization using cloud-based technology and meeting requirements
- ☐ Designing virtualized environments to support applications and services
- ☐ Refactoring existing applications and services to use cloud-based data

Correct
Key differences between this definition and the others are the use of cloud-based technology and meeting requirements.

Continue

Number correct: 1 out of 1

0:06 / 1:25

Module 2 Knowledge Check

awsacademy.instructure.com/courses/59453/assignments/561758/module_item_id=5239060

ACA2EH-59453 > Assignments > Module 2 Knowledge Check

Module 2 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

Submission
May 10 at 10:29am
[Submission Details](#)
Grade: 100 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

2. The AWS Well-Architected Framework has six pillars. Three of the pillars are security, operational excellence, and sustainability. What are the other pillars of the Well-Architected Framework? (Select THREE.)

- ☒ Reliability
- ☐ Governance
- ☐ Privacy
- ☒ Performance efficiency
- ☐ Risk management
- ☒ Cost optimization

Number correct: 1 out of 1

Submit

Module 2 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

3. Which actions are consistent with the operational excellence pillar of the AWS Well-Architected Framework? (Select TWO.)

- ☒ Review and improve processes and procedures on a continuous cycle.
- ☒ Apply software engineering principles and methodology to infrastructure as code.
- ☐ Evaluate organizational structures and roles to identify skill gaps.
- ☐ Plan and manage the full lifecycle of hardware assets.
- ☐ Ensure operations personnel document changes to the infrastructure.

Number correct: 2 out of 2

Submission: May 10 at 10:39am Submission Details Grade: 100 (100 pts possible) Graded Anonymously: no Comments: No Comments

Module 2 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

4. An application requires a frontend web tier of multiple servers that communicate with a backend application tier of multiple servers. Which design most closely follows Amazon Web Services (AWS) best practices?

- ☐ Assign a dedicated Amazon EC2 instance and an Elastic Load Balancing to each web server.
- ☐ Create a backend application tier that uses Amazon ElastiCache for Redis.
- ☒ Design a frontend web tier that uses Amazon ElastiCache for Redis.
- ☐ Create a backend application tier that uses Amazon ElastiCache for Redis.

Correct

Although ELB appears to be a single point of failure in diagrams, the service is highly available and does not present a single point of failure. In this architecture, ELB would decouple the two tiers.

Continue

Number correct: 4 out of 4

Submission: May 10 at 10:39am Submission Details Grade: 100 (100 pts possible) Graded Anonymously: no Comments: No Comments

Module 2 Knowledge Check

ACAv2EH-59453 > Assignments > Module 2 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

Submission

May 10 at 10:29am
Submission Details
Grade: 100 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

5. A solutions architect is developing a process for handling server failures. Which process most closely follows Amazon Web Services (AWS) best practices?

- ☐ Operations detects a system failure. They notify the systems administrator, who provisions a new server by using the AWS Management Console.
- ☐ Amazon CloudWatch detects a system failure. It notifies the systems administrator, who provisions a new server by using the AWS Management Console.
- ☐ Operations detects a system failure. They trigger automation to provision a new server.
- ☒ Amazon CloudWatch detects a system failure. It triggers automation to provision a new server.

Number correct: 4 out of 4

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Module 2 Knowledge Check

ACAv2EH-59453 > Assignments > Module 2 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

Submission

May 10 at 10:29am
Submission Details
Grade: 100 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

6. A company wants to change some functionality of their website. They are unsure of what will happen if they make the change. Which approach most closely follows Amazon Web Services (AWS) best practices?

- ☐ Change the production site while it is online. Use backups to undo the change.
- ☐ Change the production site during offline maintenance hours. Use backups to undo the change.
- ☒ Provision a new server and make changes to it. Use DNS to gradually migrate users to the new server. Shut down the original server after all users migrate.
- ☐ Test the change on an existing development server. Change the production site during offline maintenance hours. Use backups to undo the change.

Number correct: 5 out of 5

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Module 2 Knowledge Check

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Due No Due Date Points 100 Submitting an external tool

7. A company stores read-only data in Amazon Simple Storage Service (Amazon S3). Most users are in the same country as the company headquarters. Some users are located around the world. Which design decision most closely follows Amazon Web Services (AWS) best practices?

- ☐ Use a bucket in the AWS Region closest to the company headquarters.
- ☐ Use a bucket in the AWS Region that has the lowest average latency for all users.
- ☐ Replicate objects across buckets in AWS Regions around the world. Users access the bucket in the AWS Region closest to them.
- ☒ Use a bucket in the AWS Region closest to the company headquarters. All users access the data through Amazon CloudFront.

aws Number correct: 6 out of 6

Submission

May 10 at 10:09am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

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Due No Due Date Points 100 Submitting an external tool

8. A consultant must access a large object in an S3 bucket. They need a day to access the file. Which method for granting access most closely follows Amazon Web Services (AWS) best practices?

- ☒ Create a presigned URL to the object that expires in 24 hours, and give it to the consultant.
- ☐ Enable public access on the S3 bucket. Give the object URL to the consultant.
- ☐ Copy the object to a new S3 bucket. Enable public access on the new bucket. From the new bucket, get the object URL, and give it to the consultant.
- ☐ Create a user account for the consultant. Grant the user account permissions to access the S3 bucket through the AWS Management Console.

aws Number correct: 7 out of 7

Submission

May 10 at 10:09am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

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Module 2 Knowledge Check

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Due: No Due Date Points: 100 Submitting: an external tool

Submission
May 10 at 10:29am
Submission Details
Grade: 100 (100 possible)
Graded Anonymously: no
Comments: No Comments

9. What are the main considerations that influence which AWS Regions to use? (Select TWO.)

- ☐ Security and access control
- ☒ Latency reduction for end users
- ☐ Protection against localized natural disasters
- ☐ Application resiliency during system failures
- ☐ Compliance with laws and regulations

Number correct: 8 out of 8

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Module 2 Knowledge Check

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Due: No Due Date Points: 100 Submitting: an external tool

Submission
May 10 at 10:29am
Submission Details
Grade: 100 (100 possible)
Graded Anonymously: no
Comments: No Comments

10. What are the main considerations that influence which Availability Zones to use? (Select TWO.)

- ☐ Security and access control
- ☐ Latency reduction for end users
- ☒ Protection against localized natural disasters
- ☒ Application resiliency during system failures
- ☐ Compliance with laws and regulations

Number correct: 9 out of 9

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Module 3 Knowledge Check Answers | Adding a Storage Layer | AWS Academy Cloud Architecting

awsacademy.instructure.com/courses/59453/assignments/561761/module_item_id=5230073

ACAv2EN-59453 : Assignments : Module 3 Knowledge Check

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

Submission
May 10 at 10:50am
Submission Details
Grade: 10 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

1. Amazon Simple Storage Service (Amazon S3) provide a good solution for which of the following use cases?

- ☐ A data warehouse for business intelligence
- ☒ An internet-accessible storage location for video files that an external website accesses
- ☐ Hourly storage of frequently accessed temporary files
- ☐ A cluster for traditional Apache Spark and Apache Hadoop installations to process big data

Number correct: 0 out of 0

0.05 / 1:18

Module 3 Knowledge Check

awsacademy.instructure.com/courses/59453/assignments/561761/module_item_id=5230073

ACAv2EN-59453 : Assignments : Module 3 Knowledge Check

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

Submission
May 10 at 10:50am
Submission Details
Grade: 10 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

2. A company is interested in using Amazon Simple Storage Service (Amazon S3) alone to host their website, instead of a traditional web server. Which types of content does Amazon S3 support for static web hosting? (Select THREE.)

- ☒ HTML files and image files
- ☒ Client-side scripts
- ☐ Server-side scripts
- ☐ Dynamic HTML files
- ☒ Video and sound files

Number correct: 1 out of 1

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

3. Which scenarios represent a good use for Amazon Simple Storage Service (Amazon S3)? (Select TWO.)

- ☐ Housing the root volume of a live operating system
- ☐ Providing a mountable file system for Linux-based workloads
- ☒ Backing up critical data
- ☐ Exposing a virtual tape library to on-premises backup systems
- ☒ Storing computation and analytics data

Number correct: 2 out of 2

Submission: May 10 at 10:58am
Submit Details
Grade: 10 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

4. A company wants to use an S3 bucket to store sensitive data. Which actions can they take to protect their data? (Select TWO.)

- ☐ Uploading unencrypted files to Amazon S3 because Amazon S3 encrypts the files by default
- ☒ Enabling server-side encryption on the S3 bucket before uploading sensitive data
- ☐ Enabling server-side encryption on the S3 bucket after uploading sensitive data
- ☒ Using client-side encryption to protect data in transit
- ☐ Using Secure File Transfer Protocol (SFTP) to connect directly to Amazon S3

Number correct: 3 out of 3

Submission: May 10 at 10:58am
Submit Details
Grade: 10 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

5. A company must create a common place to store shared files. Which requirements does Amazon Simple Storage Service (Amazon S3) support? (Select TWO.)

- ☒ Recover deleted files
- ☒ Maintain multiple versions of the same object
- ☐ Lock objects to prevent deletion
- ☐ Attach metadata to objects
- ☐ Compress objects

Correct

Amazon S3 object versioning enables maintenance of different versions and recovery of deleted files. It is not enabled by default, and it must be enabled on a bucket.

Continue

Number correct: 5 out of 5

Submission

May 10 at 10:50am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

6. A customer service team accesses case data daily for up to 30 days. Cases can be reopened and require immediate access for 1 year after they are closed. Which solution meets the requirements and is the most cost-efficient?

- ☐ Store all case data in S3 Standard so that it is available whenever needed.
- ☒ Store case data in S3 Standard. Use a lifecycle policy to move the data into S3 Standard-Infrequent Access (S3 Standard-IA) after 30 days.
- ☐ Store case data in S3 Standard. Use a lifecycle policy to move the data into Amazon S3 Glacier after 30 days.
- ☐ Store case data in S3 Intelligent-Tiering to automatically move data between tiers based on access frequency.

Correct

Number correct: 5 out of 5

Submission

May 10 at 10:50am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

7. Which Amazon Simple Storage Service (Amazon S3) unaccelerated data transfers have an associated cost? (Select TWO.)

- ☐ IN from the internet
- ☒ OUT to the internet
- ☒ OUT to other AWS Regions
- ☐ OUT to other AWS services in the same AWS Region
- ☐ OUT to Amazon CloudFront

Number correct: 5 out of 6

Submission

May 10 at 10:56am

Submission Details

Grade: 90 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

8. A company is migrating 100 terabytes (TB) of data from their on-premises data center to Amazon Simple Storage Service (Amazon S3). The company connects to Amazon Web Services (AWS) by using a single 155 megabits per second (Mbps) internet connection. Which data transfer option is the fastest and most cost-effective?

- ☐ AWS Management Console
- ☐ Amazon S3 multipart uploads
- ☒ AWS Snowball
- ☐ AWS Snowmobile

Number correct: 7 out of 7

Submission

May 10 at 10:56am

Submission Details

Grade: 90 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

9. A video producer must regularly transfer several video files to Amazon Simple Storage Service (Amazon S3). The files range from 100–700 MB. The internet connection has been unreliable, causing some uploads to fail. Which solution provides the fastest, most reliable, and most cost-effective way to transfer these files to Amazon S3?

- ☐ AWS Management Console
- ☐ AWS Snowmobile
- ☐ AWS Snowball
- ☒ Amazon S3 multipart uploads

Number correct: 8 out of 8

Submission: May 10 at 10:56am
Submit Details
Grade: 10 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

Module 3 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

10. Which qualities vary by AWS Region? (Select TWO.)

- ☒ Cost-effectiveness of workloads
- ☐ Data privacy
- ☐ High availability of workloads
- ☒ Service and feature availability
- ☐ Capacity for more customers

Number correct: 9 out of 9

Submission: May 10 at 10:56am
Submit Details
Grade: 10 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

1. Which attributes are reasons to choose Amazon Elastic Compute Cloud (Amazon EC2)? (Select TWO.)

- ☒ Ability to run any type of workload
- ☐ Ability to run serverless applications
- ☐ Amazon Web Services (AWS) management of operating system patches
- ☐ AWS management of operating system security
- ☒ Complete control of computing resources

Number correct: 0 out of 0

Submission

May 10 at 11:03am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

2. What are the benefits of using an Amazon Machine Image (AMI)? (Select THREE.)

- ☒ Using an AMI as a server backup for Amazon Elastic Compute Cloud (Amazon EC2) instances
- ☒ Selling or sharing software solutions packaged as an AMI
- ☐ Migrating data from on-premises to Amazon EC2 instances
- ☐ Automating security group settings for instances
- ☒ Launching instances with the same configuration

Number correct: 1 out of 1

Submission

May 10 at 11:03am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

3. A system administrator must change the instance types of multiple running Amazon Elastic Compute Cloud (Amazon EC2) instances. The instances were launched with a mix of Amazon Elastic Block Store (Amazon EBS)-backed Amazon Machine Images (AMIs) and instance store-backed AMIs. Which method is a valid way to change the instance type?

- ☐ Change the instance type of an Amazon EBS-backed instance without stopping it.
- ☐ Change the instance type of an instance store-backed instance without stopping it.
- ☒ Stop an Amazon EBS-backed instance, change its instance type, and start the instance.
- ☐ Stop an instance store-backed instance, change its instance type, and start the instance.

Number correct: 2 out of 2

Submission

May 10 at 11:03am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

4. A workload requires high read/write access to large local datasets. Which instance types would perform best for this workload? (Select TWO.)

- ☐ General purpose
- ☐ Compute
- ☒ Memory optimized
- ☐ Accelerated computing
- ☒ Storage optimized

Correct

Memory optimized instances are designed for processing large datasets in memory. Storage optimized instances are designed for workloads that require high, sequential read/write access to very large datasets on local storage.

Continue

Number correct: 4 out of 4

Submission

May 10 at 11:03am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

5. An application requires the media access control (MAC) address of the host Amazon Elastic Compute Cloud (Amazon EC2) instance. The architecture uses an AWS Auto Scaling group to dynamically launch and terminate instances. Which way is best for the application to obtain the MAC address?

- ☐ Write the MAC address in the application configuration file of each instance.
- ☐ Include the MAC address in the Amazon Machine Image (AMI) that is used to launch all of the instances in the AWS Auto Scaling group.
- ☐ Include the MAC address in a custom AMI for each instance in the AWS Auto Scaling group.
- ☒ Use the user data of each instance to access the MAC address through the instance metadata.

Number correct: 4 out of 4

Submission

May 10 at 11:03am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

6. A transactional workload on an Amazon Elastic Compute Cloud (Amazon EC2) instance performs high amounts of frequent read and write operations. Which Amazon Elastic Block Store (Amazon EBS) volume type is best for this workload?

- ☐ General purpose solid state drive (SSD)
- ☐ Cold hard disk drive (HDD)
- ☒ Provisioned IOPS solid state drive (SSD)
- ☐ Throughput optimized hard disk drive (HDD)

Number correct: 5 out of 5

Submission

May 10 at 11:03am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

7. It is possible to create an NFS share on an Amazon EBS-backed Linux instance by installing and configuring an NFS server on the instance. In this way, multiple Linux systems can share the file system of that instance. Which advantages does Amazon Elastic File System (Amazon EFS) provide, compared to this solution? (Select TWO.)

- ☐ Strong consistency
- ☒ Automatic scaling
- ☒ High availability
- ☐ File locking
- ☐ No need for backups

Number correct: 6 out of 6

Submission: May 10 at 11:03am Submission Details Grade: 10 (100 pts possible) Graded Anonymously: no Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

8. Which feature does Amazon FSx for Windows File Server provide?

- ☒ Fully managed Windows file servers
- ☐ Microsoft Active Directory (Microsoft AD) server for Windows file servers
- ☐ Backup solution for on-premises Windows file servers
- ☐ Amazon management agent for Windows file servers

Number correct: 7 out of 7

Submission: May 10 at 11:03am Submission Details Grade: 10 (100 pts possible) Graded Anonymously: no Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

9. Which descriptions of Amazon Elastic Compute Cloud (Amazon EC2) pricing options are correct? (Select TWO.)

- ☒ On-Demand Instances enable you to pay for compute capacity by usage time, with no long-term commitments.
- ☐ Reserved Instances are physical servers that are reserved exclusively for your use.
- ☐ Savings Plans are budgeting tools that help you manage Amazon EC2 costs.
- ☐ Dedicated Hosts are servers that are dedicated to one purpose, such as a firewall.
- ☒ Spot Instances offer spare compute capacity at discounted prices, and can be interrupted.

Number correct: 8 out of 8

Submission

May 10 at 11:03am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 4 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

10. A company has three high-performance computing instances that must communicate with each other. The company would like to achieve maximum network performance between the instances. The most important requirement is that these systems do not share the same rack. Which placement strategy should they use?

- ☐ Default
- ☐ Cluster
- ☒ Spread
- ☐ Partition

Number correct: 9 out of 9

Submission

May 10 at 11:03am

Submission Details

Grade: 10 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 5 Knowledge Check

ACAv2EH-59453 > Assignments > Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

1. Which use cases indicate that a non-relational database might be a better solution than a relational database? (Select TWO.)

- ☒ Horizontal scaling for massive data volume
- ☐ ACID compliance for all database transactions
- ☒ Data with unpredictable attributes
- ☐ Strong read-after-write consistency
- ☐ High availability and fault tolerance

Number correct: 0 out of 0

Submission

May 10 at 11:08am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments

No Comments

Module 5 Knowledge Check

ACAv2EH-59453 > Assignments > Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

2. Which statement that compares a database service that Amazon Web Services (AWS) manages with a database on an Amazon Elastic Compute Cloud (Amazon EC2) instance is true?

- ☐ You do not need to configure backups for a database on a managed database service.
- ☒ AWS manages DB patches for a database on a managed database service.
- ☐ AWS manages operating system (OS) patches for a database on an EC2 instance.
- ☐ You do not need to configure backups for a database on an EC2 instance.

Number correct: 1 out of 1

Submission

May 10 at 11:08am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments

No Comments

Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

3. Which examples are good use cases for Amazon Relational Database Service (Amazon RDS)? (Select THREE.)

- ☐ Thousands of distributed concurrent writes per second
- ☒ An application that requires the database to enforce syntax rules
- ☒ An application that requires complex joins of data
- ☐ A petabyte-scale data warehouse
- ☒ Running a Microsoft SQL Server in Amazon Web Services (AWS)
- ☐ Database for serverless architectures

Number correct: 2 out of 2

Submission

May 10 at 11:08am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

4. A small company is deciding which service to use for an enrollment system for their online training website. Choices are MySQL on Amazon Elastic Compute Cloud (Amazon EC2), MySQL in Amazon Relational Database Service (Amazon RDS), and Amazon DynamoDB. Which combination of use cases suggests using Amazon RDS? (Select THREE.)

- ☐ Data and transactions must be encrypted to protect personal information.
- ☒ The data is highly structured.
- ☒ Student, course, and registration data are stored in many different tables.
- ☐ The enrollment system must be highly available.
- ☒ The company doesn't want to manage database patches.

Number correct: 3 out of 3

Submission

May 10 at 11:08am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

5. Which scenarios are good use cases for Amazon DynamoDB? (Select THREE.)

- ☒ Database for serverless architectures
- ☒ Applications that require ACID transactions
- ☐ Applications that combine data from many tables
- ☐ Graph database to trace relationships between entities
- ☒ Document database for JavaScript Object Notation (JSON)-based documents
- ☐ Binary large object (BLOB) storage

Number correct: 4 out of 4

Submission: May 10 at 11:08am
Submitted Details
Grade: 100 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

6. A small game company is designing an online game, where thousands of players can create their own in-game objects. The current design uses a MySQL database in Amazon Relational Database Service (Amazon RDS) to store data for player-created objects. Which use cases suggest that DynamoDB might be a better solution? (Select TWO.)

- ☐ A set of common attributes that all player-created objects have
- ☒ Unpredictable attributes for player-created objects
- ☒ Large number of player-created objects, each with different attributes
- ☐ Quick search and retrieval of player-created objects
- ☐ High amount of read activity on player-created objects

Number correct: 5 out of 5

Submission: May 10 at 11:08am
Submitted Details
Grade: 100 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

Module - 5 Knowledge Check Answers | Adding a Database Layer | | AWS Academy Cloud Architecting

Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

7. Which techniques should you use to secure an Amazon Relational Database Service (Amazon RDS) database? (Select THREE.)

- ☐ AWS Identity and Access Management (IAM) policies to define access at the table, row, and column levels
- ☒ Security groups to control network access to individual instances
- ☐ An Amazon Virtual Private Cloud (Amazon VPC) gateway endpoint to prevent traffic from traversing the internet
- ☐ A virtual private gateway (VGW) to filter traffic from restricted networks
- ☒ A virtual private cloud (VPC) to provide instance isolation and firewall protection
- ☒ Encryption to protect sensitive data

Number correct: 6 out of 8

Submission

May 10 at 11:08am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

1:05 / 1:43

Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

8. Which techniques should you use to secure Amazon DynamoDB? (Select THREE.)

- ☐ Security groups to control network access to individual instances
- ☐ A virtual private gateway (VGW) to filter traffic from restricted networks
- ☐ A virtual private cloud (VPC) to provide instance isolation and firewall protection
- ☒ AWS Identity and Access Management (IAM) policies to define access at the table, item, or attribute level
- ☒ Encryption to protect sensitive data
- ☒ An Amazon Virtual Private Cloud (Amazon VPC) gateway endpoint to prevent traffic from traversing the internet

Number correct: 7 out of 7

Submission

May 10 at 11:08am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

9. A company wants to migrate their on-premises Oracle database to Amazon Aurora MySQL. Which process describes the high-level steps?

- ☐ Use AWS Database Migration Service (AWS DMS) to migrate from the Oracle database to Amazon Aurora MySQL.
- ☐ Use AWS Database Migration Service (AWS DMS) to migrate the data, and then use AWS Schema Conversion Tool to convert the schema.
- ☒ Use AWS Schema Conversion Tool to convert the schema, and then use AWS Database Migration Service (AWS DMS) to migrate the data.
- ☐ Use AWS Schema Conversion Tool to synchronously convert the schema and migrate the data.

Number correct: 8 out of 8

Submission

May 10 at 11:08am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 5 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

10. You must perform a heterogeneous migration from your on-premises facility to a database in a virtual private cloud (VPC). You will use AWS Snowball Edge and AWS Database Migration Service (AWS DMS). At which point do you use AWS Schema Conversion Tool (AWS SCT)?

- ☒ At the Edge, before loading data into the target database.
- ☐ After loading data into the target database.
- ☐ After the data is loaded into the target database.
- ☐ After using AWS DMS to load the data into the target database in the VPC.

Correct

Because AWS SCT connects to a database engine, you should run it locally. The alternative is a homogenous migration to a database in Amazon Web Services (AWS) first, which is less efficient.

Continue

Number correct: 10 out of 10

Submission

May 10 at 11:08am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module - 6 Knowledge Check Answers|Creating a Networking Environment|AWS Academy Cloud Architec...

awsacademy.instructure.com/courses/59453/assignments/561770/module_item_id=5239112

ACAv2EH-59453 : Assignments : Module 6 Knowledge Check

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

Submission
May 10 at 11:18am
[Submission Details](#)
Grade: 100 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

1. Which definition describes a virtual private cloud (VPC)?

☐ A virtual private network (VPN) in the AWS Cloud

☐ An extension of your on-premises network into the AWS Cloud

☒ 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.

☐ A fully managed service that provides a secure, isolated network for your AWS resources

Correct
A VPC is 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.

Continue

Number correct: 1 out of 1

0:08 / 1:34

Module 6 Knowledge Check

awsacademy.instructure.com/courses/59453/assignments/561770/module_item_id=5239112

ACAv2EH-59453 : Assignments : Module 6 Knowledge Check

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

Submission
May 10 at 11:18am
[Submission Details](#)
Grade: 100 (100 pts possible)
Graded Anonymously: no
Comments: No Comments

2. Which actions are best practices for designing a virtual private cloud (VPC)? (Select THREE.)

☐ Match the size of the VPC Classless Inter-Domain Routing (CIDR) block to the number of hosts that are required for a workload.

☐ Use the same Classless Inter-Domain Routing (CIDR) block as your on-premises network.

☒ Divide the VPC network range evenly across all Availability Zones available.

☒ Create one subnet per Availability Zone for each group of hosts that have unique routing requirements.

☒ Reserve some address space for future use.

Number correct: 1 out of 1

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

3. A company wants to run a highly available web tier by using two EC2 instances and a load balancer. Which design is valid and provides the highest availability?

- ☐ One subnet in one Availability Zone. The subnet contains two EC2 instances.
- ☐ One subnet in two Availability Zones. The subnet contains two EC2 instances.
- ☐ Two subnets in one Availability Zone. Each subnet contains one EC2 instance.
- ☒ Two subnets in two Availability Zones. Each subnet contains one EC2 instance.

Correct
A problem in one Availability Zone does not affect both EC2 instances.

Number correct: 5 out of 5

Submission
May 10 at 11:18am
Submitted Details
Grade: 100 (100 possible)
Graded Anonymously: no
Comments: No Comments

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

4. A company's VPC has the CIDR block 172.16.0.0/21 (2048 addresses). It has two subnets (A and B). Each subnet must support 100 usable addresses now, but this number is expected to rise to at most 254 usable addresses soon. Which subnet addressing scheme meets the requirements and follows AWS best practices?

- ☐ Subnet A: 172.16.0.0/25 (128 addresses) Subnet B: 172.16.0.128/25 (1024 addresses)
- ☐ Subnet A: 172.16.0.0/25 (128 addresses) Subnet B: 172.16.0.128/25 (128 addresses)
- ☒ Subnet A: 172.16.0.0/22 (1024 addresses) Subnet B: 172.16.2.0/23 (512 addresses)
- ☐ Subnet A: 172.16.0.0/22 (1024 addresses) Subnet B: 172.16.4.0/22 (128 addresses)

Number correct: 5 out of 5

Submission
May 10 at 11:18am
Submitted Details
Grade: 100 (100 possible)
Graded Anonymously: no
Comments: No Comments

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

5. Which combination of actions enables direct internet access for IPv4 hosts in a virtual private cloud (VPC)? (Select THREE.)

- ☒ Configuring hosts to have or obtain an internet-routable address
- ☒ Creating a route for 0.0.0.0/0 that points to the internet gateway
- ☐ Creating a default route that points to the virtual private gateway
- ☒ Configuring security groups and network access control lists (network ACLs) to permit internet traffic
- ☐ Configuring the VPC domain name in a Dynamic Host Configuration Protocol (DHCP) options set
- ☐ Enabling Domain Name System (DNS) resolution for the VPC

Number correct: 4 out of 4

Submission: May 10 at 11:18am Submission Details Grade: 100 (100 pts possible) Graded Anonymously: no Comments: No Comments

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

6. A group of consultants requires access to an EC2 instance from the internet, for 5 consecutive days each week. The instance is shut down the rest of the week. The virtual private cloud (VPC) has internet access. How should you assign an IPv4 address to the instance to give the consultants access?

- ☒ Associate an Elastic IP address with the EC2 instance
- ☐ Enable automatic address assignment for the subnet
- ☐ Enable automatic address assignment for the EC2 instance
- ☐ Assign the IP address in the operating system (OS) boot configuration

Number correct: 5 out of 5

Submission: May 10 at 11:18am Submission Details Grade: 100 (100 pts possible) Graded Anonymously: no Comments: No Comments

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

7. Several EC2 instances launch in a virtual private cloud (VPC) that has internet access. These instances should not be accessible from the internet, but they must be able to download updates from the internet. How should the instances launch?

- ☐ With Elastic IP addresses, in a subnet with a default route to an internet gateway
- ☐ With public IP addresses, in a subnet with a default route to an internet gateway
- ☐ Without public IP addresses, in a subnet with a default route to an internet gateway
- ☒ Without public IP addresses, in a subnet with a default route to a network address translation (NAT) gateway

Number correct: 6 out of 6

Submission

May 10 at 11:18am

Submission Details

Grade: 100 (100 possible)

Graded Anonymously: no

Comments: No Comments

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

8. You are configuring a bastion host to access EC2 instances in a virtual private cloud (VPC). What must you do to the security groups? (Select TWO.)

- ☐ Add a rule to the bastion host to deny all traffic from the internet.
- ☒ Add a rule to the bastion host to allow traffic from your source IP address.
- ☐ Add a rule to the bastion host to allow return traffic to your source IP address.
- ☒ Add a rule to the private subnet EC2 instances to allow traffic from the bastion host security group.
- ☐ Add a rule to the private subnet EC2 instances to allow return traffic to the bastion host security group.

Number correct: 7 out of 7

Submission

May 10 at 11:18am

Submission Details

Grade: 100 (100 possible)

Graded Anonymously: no

Comments: No Comments

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

9. You have a virtual private cloud (VPC) with a public subnet and a secure subnet. All EC2 instances in the secure subnet must be able to communicate with specific internet addresses. How can you control traffic with a network access control list (network ACL)?

- ☐ Add rules to the default network ACL to allow traffic from and to allowed internet addresses.
- ☐ Add rules to the default network ACL to allow traffic from and to allowed internet addresses. Deny all other traffic.
- ☒ Add rules to the subnet custom network ACL to allow traffic from and to allowed internet addresses.
- ☐ Add rules to the subnet custom network ACL to allow traffic from and to allowed internet addresses. Deny all other traffic.

Number correct: 8 out of 8

Submission

May 10 at 11:18am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 6 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

10. All of the EC2 instances in a subnet can communicate with a certain IPv4 network on the internet. How should you modify the security groups or current custom network access control list (network ACL) to deny traffic to and from several restricted addresses in that network?

- ☒ In the network ACL, deny traffic to and from the restricted addresses.
- ☐ In the security groups, deny traffic to and from the restricted addresses.
- ☐ In the network ACL, allow traffic only to and from address ranges that exclude the restricted addresses.
- ☐ In the security groups, allow traffic only to and from address ranges that exclude the restricted addresses.

Number correct: 9 out of 9

Submission

May 10 at 11:18am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 7 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

1. What is AWS Site-to-Site VPN?

- ☐ A service that provides SSL-encrypted links between websites in AWS
- ☐ A solution that provides encrypted sessions between AWS and on-premises systems by using TLS
- ☐ A service that provides the ability to access AWS and on-premises networks by using OpenVPN clients
- ☒ A solution that provides a connection between a virtual private cloud (VPC) and an on-premises network by using IPsec

Number correct: 0 out of 0

Submission: May 10 at 11:21am Submission Details Grade: 100 (100 pts possible) Graded Anonymously: no Comments: No Comments

Module 7 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

2. What does AWS Direct Connect provide?

- ☒ A dedicated network connection from an on-premises network to AWS that uses BGP
- ☐ A private telecommunications circuit from an on-premises network direct into AWS that uses Point-to-Point Protocol (PPP)
- ☐ An encrypted tunnel that connects an on-premises network to AWS over the internet
- ☐ An extension of the AWS Cloud into customer data centers that uses AWS hardware installed on premises

Number correct: 1 out of 1

Submission: May 10 at 11:21am Submission Details Grade: 100 (100 pts possible) Graded Anonymously: no Comments: No Comments

Module 7 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

3. A company has two virtual private clouds (VPCs). VPC A has a Classless Inter-Domain Routing (CIDR) block of 10.1.0.0/16. VPC B has CIDR block of 10.2.0.0/16. Both VPCs belong to the same Amazon Web Services (AWS) account. What is the simplest way to connect the two VPCs so that they can route all traffic between them?

- ☐ AWS Site-to-Site VPN
- ☐ AWS Direct Connect
- ☒ VPC peering
- ☐ VPC endpoints

Number correct: 2 out of 2

Submission

May 10 at 11:21am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 7 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

4. A company is implementing a system to back up on-premises systems to Amazon Web Services (AWS). Which network connectivity method will provide a solution with the most consistent performance?

- ☐ AWS Site-to-Site VPN
- ☒ AWS Direct Connect
- ☐ VPC peering
- ☐ VPC endpoints

Number correct: 5 out of 5

Submission

May 10 at 11:21am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 7 Knowledge Check

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Due: No Due Date Points: 100 Submitting: an external tool

5. Systems in a secure subnet in a virtual private cloud (VPC) must access a bucket in Amazon Simple Storage Service (Amazon S3). Which solution stops traffic from crossing the internet?

- ☒ Create a VPC gateway endpoint for Amazon S3
- ☐ Use a private IP address for the system
- ☐ Use the private IP address of Amazon S3
- ☐ Create a VPC peering connection to Amazon S3

Number correct: 4 out of 4

Submission

May 10 at 11:21am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 7 Knowledge Check

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Due: No Due Date Points: 100 Submitting: an external tool

6. A company has three virtual private clouds (VPCs). VPCs A, B, and C have Classless Inter-Domain Routing (CIDR) blocks that do not overlap. Both A and C have separate VPC peering connections with B. However, A cannot communicate with C. What is the simplest and most cost-effective way to enable full communication between A and C?

- ☐ Add routes to B to enable traffic between A and C through B.
- ☒ Add a peering connection between A and C, and route traffic between A and C through the peering connection.
- ☐ Link all three VPCs through a transit VPC, and route all traffic through the transit VPC.
- ☐ Create VPC endpoints in A and C for the individual hosts that need to communicate with each other.

Number correct: 5 out of 5

Submission

May 10 at 11:21am

Submission Details

Grade: 100 (100 pts possible)

Graded Anonymously: no

Comments: No Comments

Module 7 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

7. Because of a natural disaster, a company moved a secondary data center to a temporary facility with internet connectivity. It needs a secure connection to the company's virtual private cloud (VPC) that must be operational as soon as possible. The data center will move again in 2 weeks. Which option meets the requirements?

- ☐ VPC peering
- ☐ VPC endpoints
- ☒ AWS Site-to-Site VPN
- ☐ AWS Direct Connect

Number correct: 6 out of 6

Submission

May 10 at 11:21am

Submission Details

Grade: 100 (100 possible)

Graded Anonymously: no

Comments: No Comments

Module 7 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

8. What is the simplest way to connect 100 virtual private clouds (VPCs) together?

- ☐ Create a hub-and-spoke network by using AWS VPN CloudHub
- ☐ Chain VPCs together by using VPC peering
- ☐ Connect each VPC to all the other VPCs by using VPC peering
- ☒ Connect the VPCs to AWS Transit Gateway

Number correct: 7 out of 7

Submission

May 10 at 11:21am

Submission Details

Grade: 100 (100 possible)

Graded Anonymously: no

Comments: No Comments

Module 7 Knowledge Check

Due: No Due Date Points: 100 Submitting: an external tool

9. A company's security administrator requires that EC2 instances in a specific subnet must connect to Amazon DynamoDB through a VPC endpoint. The company's network standards require that the infrastructure support high availability. Which action meets these architecture requirements without adding another subnet?

- ☒ Associate a single VPC endpoint with the subnet
- ☐ Associate two VPC endpoints with the subnet
- ☐ Associate two VPC endpoints with the subnet and use Elastic Load Balancing
- ☐ Associate VPC endpoints through an Auto Scaling group that is connected to Elastic Load Balancing

Number correct: 8 out of 8

Submission: May 10 at 11:21am Submission Details Grade: 100 (100 pts possible) Graded Anonymously: no

Module 7 Knowledge Check

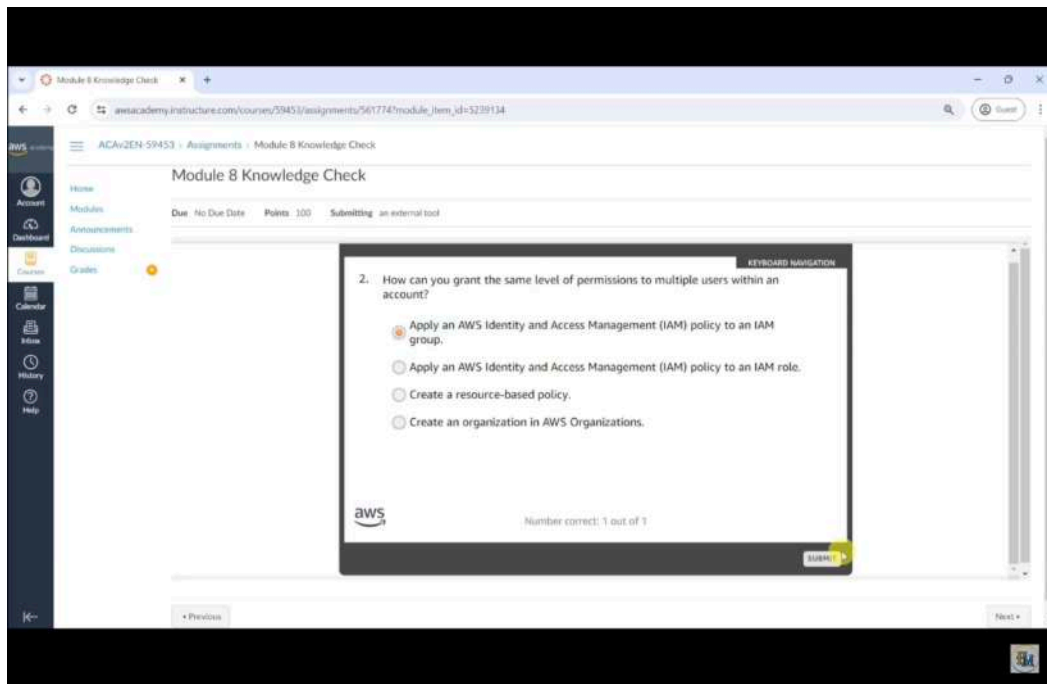
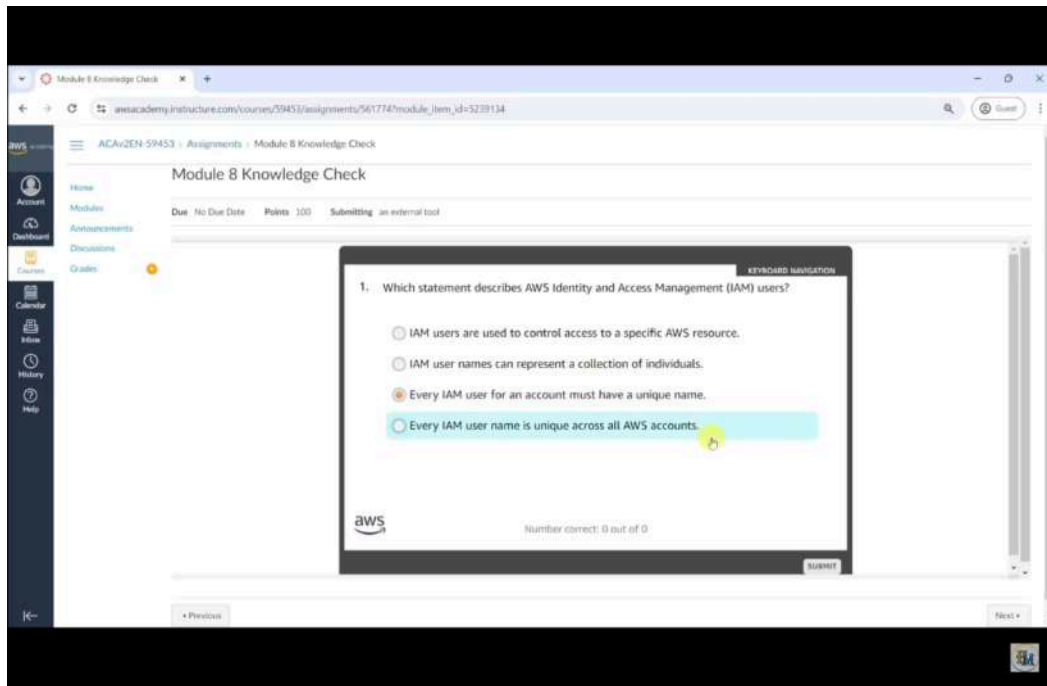
Due: No Due Date Points: 100 Submitting: an external tool

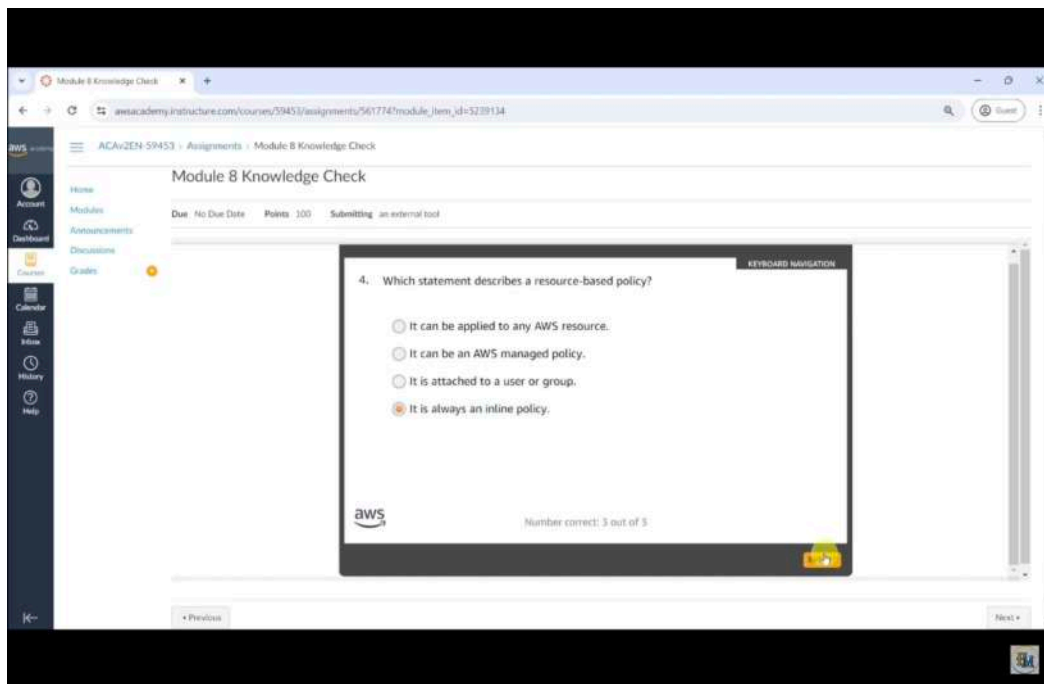
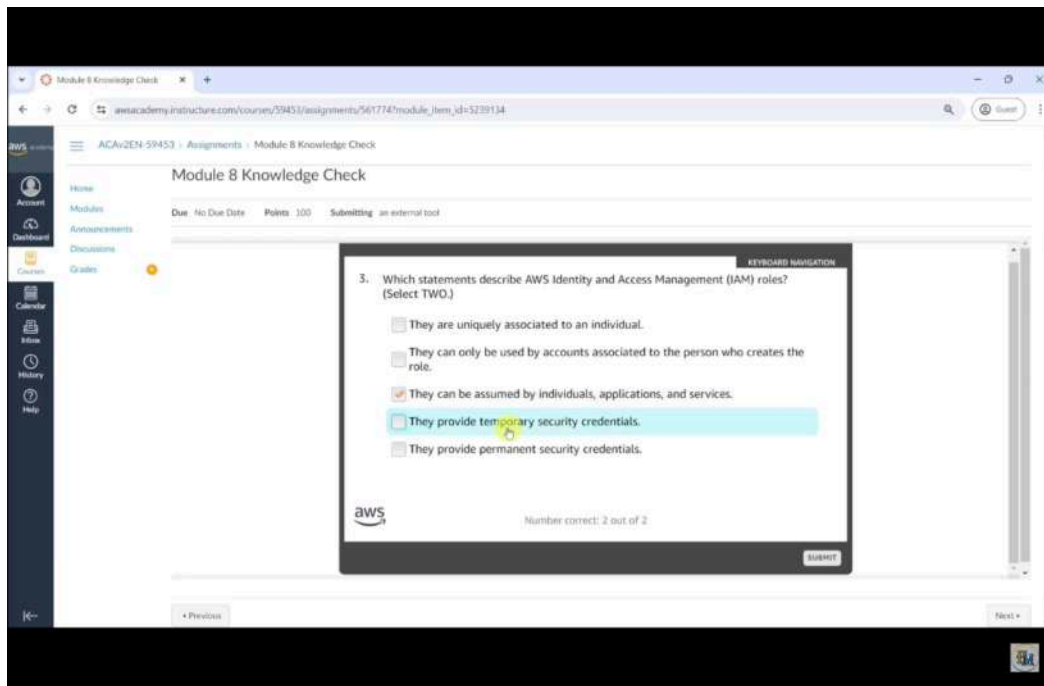
10. A company uses a single AWS Direct Connect connection between their on-premises network and their virtual private cloud (VPC). They want to ensure that the network connectivity is highly available by adding a backup connection. Which network connectivity method provides most cost-effective solution for the backup connection?

- ☐ Another AWS Direct Connect connection through the same Direct Connect location
- ☐ Another AWS Direct Connect connection through a different Direct Connect location
- ☐ An on-demand AWS Client VPN connection across the internet
- ☒ An on-demand AWS Site-to-Site VPN connection across the internet

Number correct: 9 out of 9

Submission: May 10 at 11:21am Submission Details Grade: 100 (100 pts possible) Graded Anonymously: no





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Due No Due Date Points 100 Submitting an external tool

5. How does AWS Identity and Access Management (IAM) evaluate a policy?

- ☐ It checks for explicit allow statements before it checks for explicit deny statements.
- ☒ It checks for explicit deny statements before it checks for explicit allow statements.
- ☐ If there is no explicit deny statement or explicit allow statement, users will have access by default.
- ☐ An explicit deny statement does not override an explicit allow statement.

aws Number correct: 4 out of 4

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Due No Due Date Points 100 Submitting an external tool

6. A team of developers needs access to several services and resources in a virtual private cloud (VPC) for 9 months. How can you use AWS Identity and Access Management (IAM) to enable access for them?

- ☐ Create a single IAM user for the developer team and attach the required IAM policies.
- ☐ Create an IAM user for each developer, and attach the required IAM policies to each IAM user.
- ☒ Create an IAM user for each developer, put them all in an IAM group, and attach the required IAM policies to the IAM group.
- ☐ Create a single IAM user for the developer team, place it in an IAM group, and attach the required IAM policies to the IAM group.

aws Number correct: 5 out of 5

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Due: No Due Date Points: 100 Submitting: an external tool

7. How does identity federation increase security for an application that is built in Amazon Web Services (AWS)?

- ☒ Users can use single sign-on (SSO) to access the application through an existing authenticated identity.
- ☐ The application can synchronize users' user names and passwords in AWS Identity and Access Management (IAM) with their social media accounts.
- ☐ The browser can establish a trust relationship with the application to bypass the need for multi-factor authentication (MFA).
- ☐ Users can use their AWS Identity and Access Management (IAM) accounts to log in to on-premises systems.

Number correct: 6 out of 6

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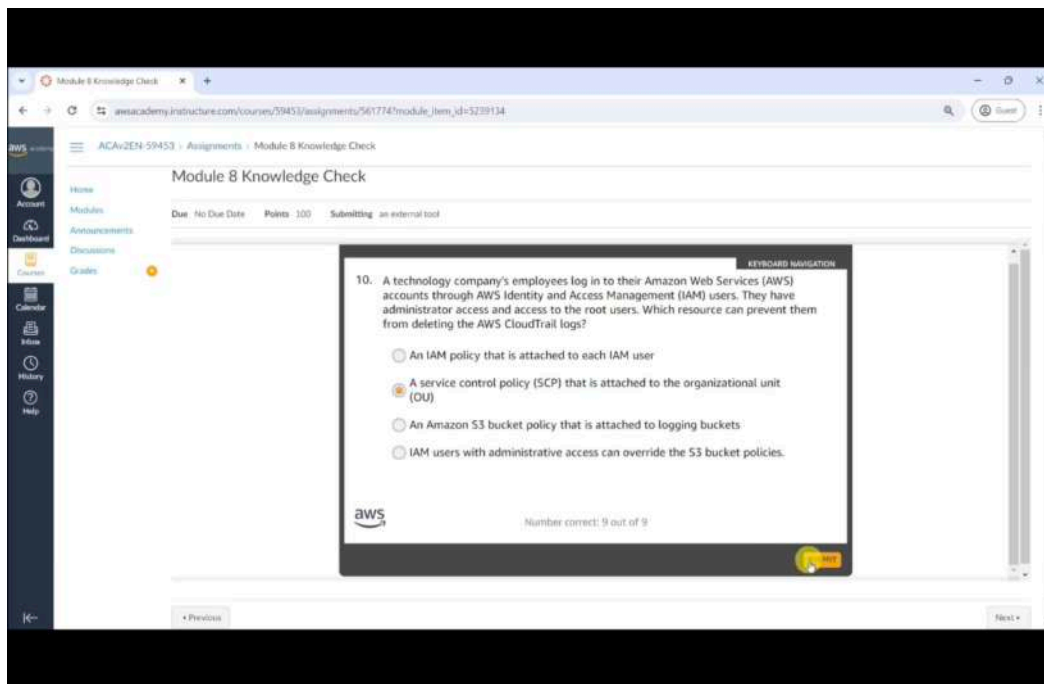
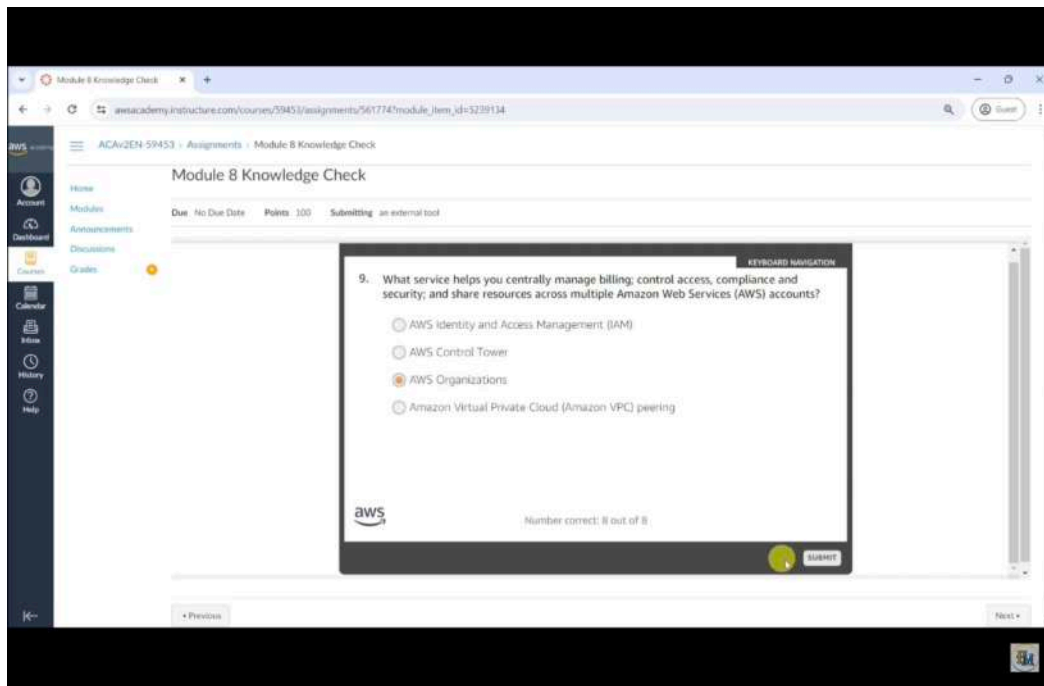
Due: No Due Date Points: 100 Submitting: an external tool

8. Which services can you use to enable identity federation for your applications that are built in Amazon Web Services (AWS)? (Select TWO.)

- ☐ AWS WAF
- ☐ AWS Key Management Service (AWS KMS)
- ☒ AWS Security Token Service (AWS STS)
- ☐ AWS CloudHSM
- ☒ Amazon Cognito

Number correct: 7 out of 7

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Due: No Due Date Points: 100 Submitting: an external tool

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1: Which statement about Amazon EC2 Auto Scaling is accurate?

- ☐ It requires the customer to purchase Reserved Instances.
- ☒ It can launch Amazon Elastic Compute Cloud (Amazon EC2) instances in multiple Availability Zones.
- ☐ It can launch Amazon Elastic Compute Cloud (Amazon EC2) instances, but customers must terminate instances after they are no longer needed.
- ☐ It can only launch new Amazon Elastic Compute Cloud (Amazon EC2) instances based on a schedule.

aws Number correct: 0 out of 1

Submit

0:09 / 1:34

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2: You detected that the demand on a fleet of Amazon Elastic Compute Cloud (Amazon EC2) instances in an Auto Scaling group increases by a set amount each day. Which type of scaling is the most appropriate for this scenario?

- ☒ Scheduled
- ☐ Dynamic
- ☐ Predictive
- ☐ Manual

Correct
Scheduled scaling is most appropriate when you have a well-established pattern of demand.

Continue

aws Number correct: 2 out of 2

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Due: No Due Date Points: 100 Submitting: an external tool

3. A fleet of Amazon Elastic Compute Cloud (Amazon EC2) instances are launched in an Auto Scaling group behind an Elastic Load Balancing load balancer. The EC2 instances must maintain 50 percent average CPU utilization. Which type of scaling provides the simplest way to achieve this requirement?

- ☐ Step scaling
- ☐ Simple scaling
- ☒ Target tracking scaling
- ☐ Manual scaling

Number correct: 2 out of 2

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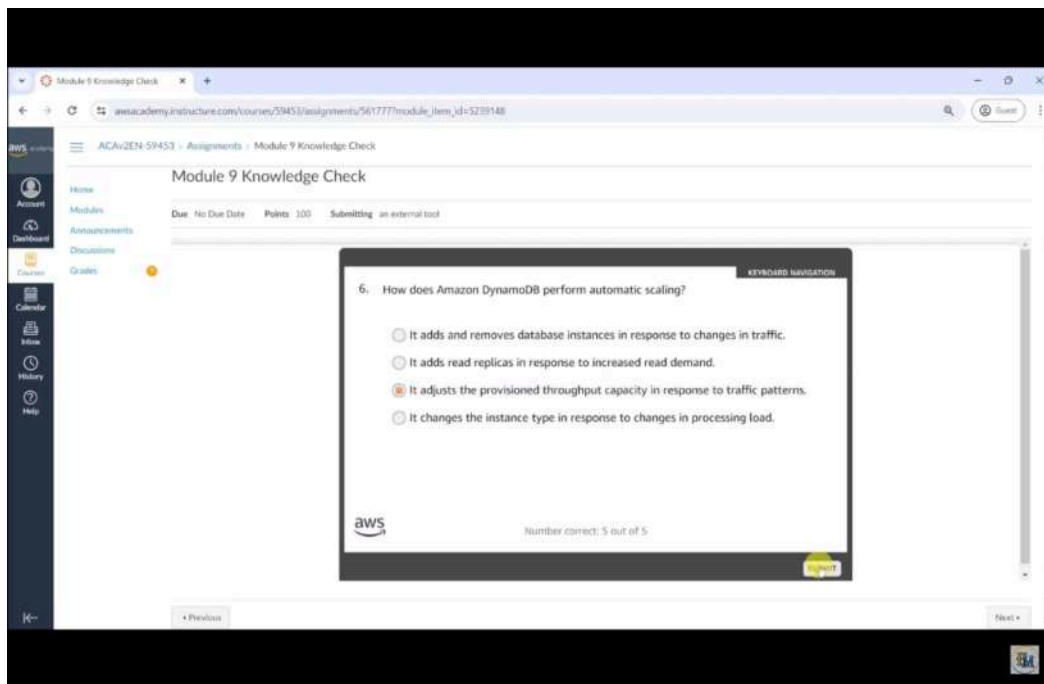
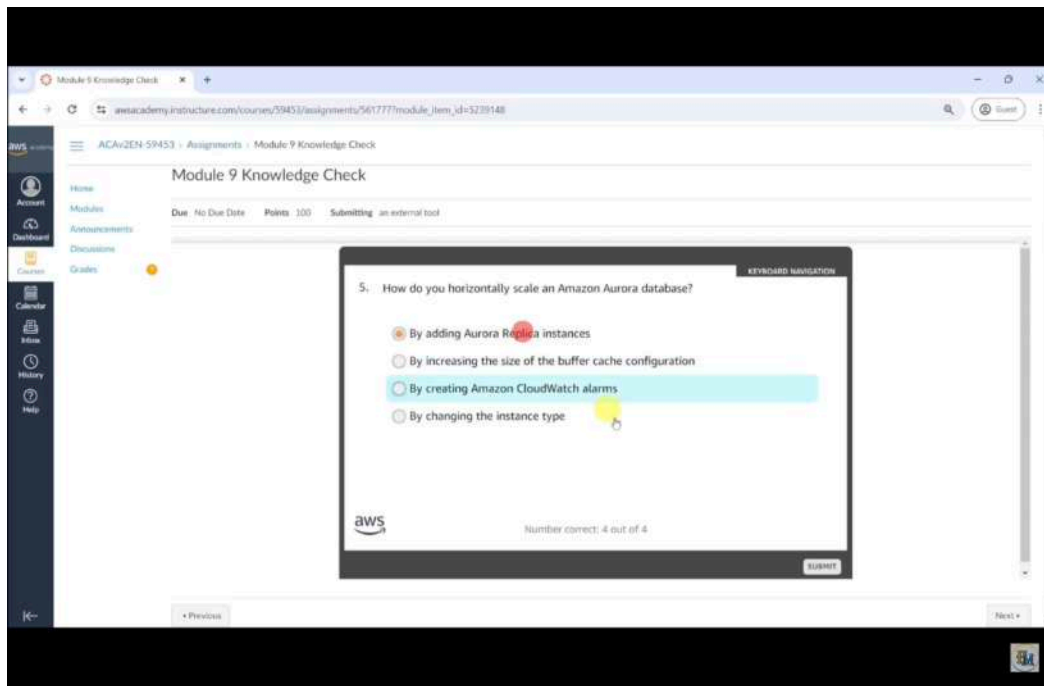
Due: No Due Date Points: 100 Submitting: an external tool

4. How do you vertically scale an Amazon Relational Database Service (Amazon RDS) database?

- ☐ By adding read replicas
- ☐ By creating dedicated read and write nodes
- ☐ By sharding the database
- ☒ By changing the instance class

Number correct: 3 out of 3

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Due No Due Date Points 100 Submitting an external tool

7. A fleet of Amazon Elastic Compute Cloud (Amazon EC2) instances launch in an Auto Scaling group. The instances run an application that uses a custom protocol on TCP port 42000. Connections from client systems on the internet must balance across the instances. Which load balancing solution ensures the highest availability?

- ☐ Round-robin DNS
- ☐ Application Load Balancer
- ☒ Network Load Balancer
- ☐ Instance-based load balancer

aws Number correct: 6 out of 6

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Due No Due Date Points 100 Submitting an external tool

8. Users in location A connect to an application in Region A. Users in location B connect to the same application in Region B. If the application in Region A becomes unhealthy, clients in location A must be redirected to the application in Region B. Which solution can meet this requirement?

- ☐ Use an Application Load Balancer with Amazon CloudWatch alarms.
- ☒ Use geolocation routing with failover records in Amazon Route 53.
- ☐ Use latency-based routing in Amazon Route 53 with Amazon CloudWatch alarms.
- ☐ Use geoproximity routing and a Network Load Balancer that is attached to both Regions.

aws Number correct: 7 out of 7

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9. A company must build a highly available website that uses server-side scripts to serve dynamic HTML. Which solution provides the highest availability for the least cost and complexity?

- ☒ An Auto Scaling group launches Amazon EC2 instances, which are served by an Application Load Balancer. DNS name resolution points to the load balancer.
- ☐ Amazon S3 hosts the website. DNS name resolution points to the S3 bucket.
- ☐ An Auto Scaling group launches Amazon EC2 instances, which are served by a Network Load Balancer. Amazon Route 53 uses latency-based routing.
- ☐ A second web server is deployed in another Region. Amazon Route 53 uses failover routing for disaster recovery (DR).

aws Number correct: 8 out of 8

1:14 / 1:34

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10. You have created an Amazon Web Services (AWS) account for your own personal development and testing. You want your account to stay within the AWS Free Tier and to not generate unexpected costs. Which approach will work and requires the least effort?

- ☐ Log in to the AWS Management Console each month and check your billing dashboard.
- ☐ Create a service control policy (SCP) to restrict all services that are not included in the AWS Free Tier.
- ☒ Create an Amazon CloudWatch alarm to send you an email message when the account billing exceeds \$0.
- ☐ Create an Amazon CloudWatch metric to monitor account billing and limit it to \$0.

aws Number correct: 9 out of 9