



Question 1

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Flag question

What are the main cloud computing models ?

- 1) IaaS Amazon Web Services (AWS) EC2, Microsoft Azure Virtual Machines, and Google Compute Engine.
- 2) PaaS It offers a platform and environment for developers to build, deploy, and manage applications without worrying about the underlying infrastructure.
- 3) SaaS Users access these applications through web browsers, eliminating the need for local installations.
- 4) MBaaS
- 5) MLaaS

Select one:

- a. 1,2,3
- b. 1,2,4
- c. 1,4,5
- d. 2,3,4
- e. 3,4,5

* Which type of cloud computing model enables systems and services to be shared and accessed by multiple organizations?

Public Cloud



Question 2

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Flag question

The _____ allows systems and services to be accessible by a group of organizations.

Select one:

- a. Private cloud
- b. Public cloud
- c. Community cloud
- d. Hybrid cloud
- e. Multi cloud

The cloud computing model that allows systems and services to be accessible by a group of organizations is known as "Community Cloud."



Question 1

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The _____ allows systems and services to be accessible within an organization.

Select one:

- a. Private cloud
- b. Public cloud
- c. Community cloud
- d. Hybrid cloud
- e. Multi cloud

The cloud computing model that allows systems and services to be accessible within an organization is typically referred to as "Private Cloud."



Question 3

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Which of the following is a type of Service Models ?

Select one:

- a. Public-as-a-Service
- b. Platform-as-a-Service
- c. Community-as-a-Service
- d. Private-as-a-Service
- e. Cloud-as-a-Service

Service Models:

Cloud computing offers various service models, including Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). These service models define the level of abstraction and the scope of services provided by the cloud provider.

_____ provides the runtime environment for applications, development and deployment tools, etc.

Select one:

- a. IaaS
- b. PaaS
- c. SaaS
- d. XaaS
- e. CaaS

The cloud computing model that provides a runtime environment for applications, development, and deployment tools is often referred to as "Platform as a Service (PaaS)."

Question 1

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Select the “correct” statements regarding cloud-based infrastructure services (IaaS)

- 1) Reliable and Scalable
- 2) Efficient and pay as you go facility
- 3) Since it is in your data center, you have the control of everything
- 4) Provides computing, storage, network virtualization and security aspects
- 5) No downtime

Application, DATA, OS --> X

Select one:

- a. 1,3,4
- b. 2,3,5
- c. 1,2,5
- d. 1,2,4
- e. 2,4





Question 1

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Which of the following is the working models for cloud computing ?

Select one:

- a. Deployment Model
- b. Configuring Model
- c. Collaborative Model
- d. Storage Model
- e. Network Model

Deployment models (such as Public Cloud, Private Cloud, Hybrid Cloud, and Community Cloud) describe how cloud computing resources and services are deployed or organized within a cloud infrastructure.

Common storage models in cloud computing include Object Storage (e.g., Amazon S3), Block Storage (e.g., AWS EBS), and File Storage (e.g., AWS EFS). Each storage model has its use cases and characteristics.

virtual private networks (VPNs), subnets, load balancing, and the management of network traffic within a cloud environment

Question 2

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Which of the following is a type of Service Models ?

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Question 3
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Select one:

- a. Private cloud
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- d. Hybrid cloud
- e. Multi cloud



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Which of the following are characteristics of the Auto Scaling services on AWS?

Select one or more:

- a. Sends traffic to healthy instances
- b. Responds to changing conditions by adding or terminating EC2 instances
- c. Collects and tracks metrics and sets alarms
- d. Launches instances from a specified Amazon Machine Image (AMI)
- e. Sends traffic to the instance that failed its health checks

MacBook Pro

**Question 4**

Not yet answered

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Which of the following is/are benefit(s) for user to use the public cloud ?

Select one or more:

- a. No separate hardware procurement
- b. No separate IT infrastructure maintenance required
- c. Low scalability
- d. Required separate power cost
- e. No support for all users who want cloud services and resources on a subscription basis



Question 4

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Which of the following is an advantage of IaaS (Infrastructure as service) ?

Select one or more:

- a. Efficient and flexible renting of computer hardware.
- b. Complete control of the computing resources through administrative access to VMs.
- c. Portability, interoperability with legacy applications.
- d. Provides the developer with the cloud application platform.
- e. Provides applications as a service



Which of the following is the working models for cloud computing ?

Select one:

- a. Deployment Model
- b. Configuring Model
- c. Collaborative Model
- d. Storage Model
- e. Network Model





Question 5

Not yet answered

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When you try to SSH to a remote EC2 instance, you get the error "Permission denied (public key)." and you cannot SSH. What reason ?

Select one or more:

- a. Incorrect username
- b. Incorrect SSH port
- c. Incorrect SSH private key
- d. You have not opened the correct port related SSH in security groups
- e. Your EC2 instance is not running at the moment

- C. Application
- D. None of the mentioned

[View Answer](#)

13. Which of the following is the working models for cloud computing?

- A. Deployment Models
- B. Configuring Model
- C. Collaborative Model
- D. All of the above

[View Answer](#)

Answer : A

Explanation: The working models for cloud computing are:

Deployment Models and Service

Models. So, Option A is correct.

14. Cloud computing is a _____ system and it is necessarily _____





Question 5

Not yet answered

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Advantages of using an ELB could be

Select one or more:

- a. Can distribute same web traffic across "multiple EC2 servers"
- b. High availability
- c. Can route traffic to individual nodes based on the "content"
- d. Supports for auto scaling with auto scaling groups
- e. Can be used to host "web services"



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Question 5

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Which of the following can be used to address an Amazon Elastic Compute Cloud (EC2) instance over the web?

Select one or more:

- a. Windows machine name
- b. Public DNS name
- c. Amazon EC2 instance ID
- d. Elastic IP address
- e. CIDR block

- b. Public DNS name: EC2 instances are assigned a public DNS name that can be used to access them over the internet.
- d. Elastic IP address: You can associate an Elastic IP address with your EC2 instance, providing a static, public IP address that can be used to access the instance over the web.



8

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question

What are the "correct" statements regarding AWS ELB

Elastic Load Balancer (ELB)

- 1) It supports protocols such as HTTP, HTTPS and TCP
- 2) It can expose one port to outside and pass traffic to a different port in the EC2 instance
- 3) It supports both TCP and HTTP health checks
- 4) ELB can have only one EC2 instance attached to it
- 5) An ELB does not need security group clearance to connect to an EC2 instance in an auto scaling group

Select one:

- a. 1,3,4
- b. 1,2,3
- c. 1,3,5
- d. 1,2
- e. 2,3,4



Question 6

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Which of the following describes a physical location around the world where AWS clusters data centers?

Select one:

- a. Endpoint
- b. Collection
- c. Fleet
- d. Region
- e. Availability Zone

The answer is: D. Region

An AWS Region is a physical location around the world where AWS clusters data centers. Each Region has multiple Availability Zones (AZs), which are isolated from each other to improve the availability of applications and data.

Endpoints, collections, fleets, and availability zones are all components of the AWS Cloud, but they do not describe physical locations where AWS clusters data centers.

Select the "correct" statements regarding cloud-based infrastructure services (IaaS)

- 1) Reliable and Scalable
- 2) Efficient and pay as you go facility
- 3) Since it is in your data center, you have the control of everything
- 4) Provides computing, storage, network virtualization and security aspects
- 5) No downtime

Select one:

- a. 1,3,4
- b. 2,3,5
- c. 1,2,5
- d. 1,2,4
- e. 2,4

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Question 6

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How do you control access to the services running in AWS (ex RDS, EC2, ELB) "within the same environment and from outside" ?

Select one:

- a. Use subnets
- b. Use NAT gateway
- c. Use security groups
- d. Define firewall rules (IPtables)
- e. Setup everything in a VPC



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What are the "correct" statements regarding AWS ELB

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Select one:

- a. 1,3,4
- b. 1,2,3
- c. 1,3,5
- d. 1,2
- e. 2,3,4

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How can you connect to a new Linux instance using SSH ?

Select one:

- a. Decrypt the root password
- b. Using a certificate
- c. Using the private half of the instance's key pair
- d. Using Multi-Factor Authentication (MFA)
- e. Using IAM users



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Question 7

Not yet answered

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Flag question

Elastic Load Balancing allows you to distribute traffic across which of the following?

Select one:

- a. Only within a single Availability Zone
- b. Multiple Availability Zones within a region
- c. Multiple Availability Zones within and between regions
- d. Multiple Availability Zones within and between regions and on-premises virtualized instances running Openstack
- e. Only within two Availability Zone



Select the incorrect statement/s.

Select one or more:

- a. Public cloud is more cost effective than private cloud
- b. Private cloud can be located on or off premises of the cloud provider
- c. Private cloud can be used by the general public
- d. Private cloud can be used by multiple business units
- e. Private cloud is more cost effective than public cloud





10

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Which of the following can be used to address an Amazon Elastic Compute Cloud (EC2) instance over the web ?

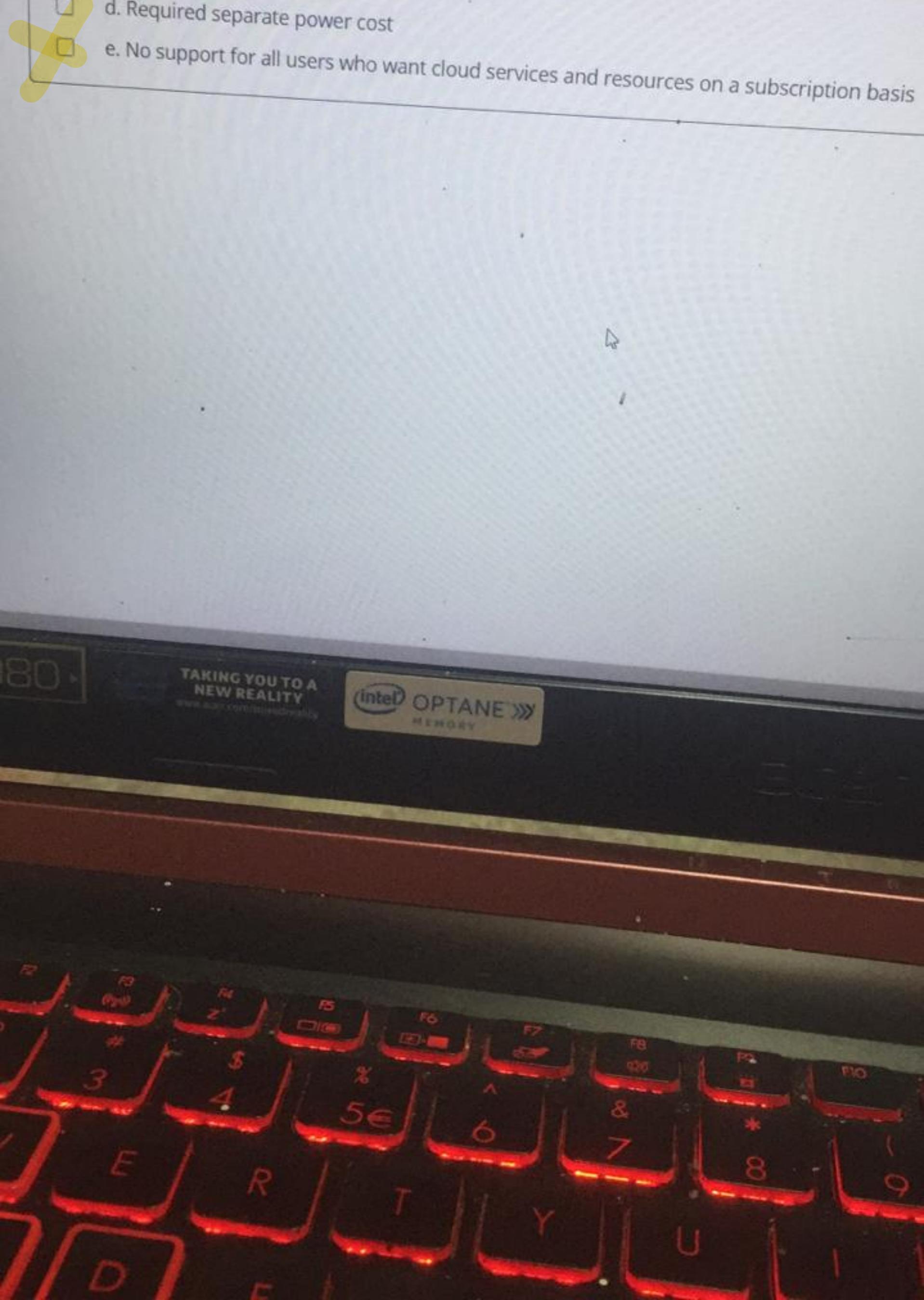
Select one or more:

- a. Windows machine name
- b. Public DNS name b. Public DNS name: EC2 instances are assigned a public DNS name that can be used to access them over the internet.
- c. Amazon EC2 instance ID
- d. Elastic IP address d. Elastic IP address: You can associate an Elastic IP address with your EC2 instance, providing a static, public IP address that can be used to access the instance over the web.
- e. CIDR block

Which of the following is/are benefit(s) for user to use the public cloud ?

Select one or more:

- a. No separate hardware procurement
- b. No separate IT infrastructure maintenance required
- c. Low scalability
- d. Required separate power cost
- e. No support for all users who want cloud services and resources on a subscription basis



Which of the following must be specified when launching a new Amazon Elastic Compute Cloud (EC2) Linux instance?

Select one or more:

- a. The Amazon EC2 instance ID
- b. Password for the administrator account
- c. Amazon EC2 instance type: You need to select the instance type that defines the hardware of the EC2 instance, including the number of CPU cores, amount of RAM, and network performance.
- d. Amazon Machine Image (AMI): You must choose an AMI, which is a pre-configured virtual machine image that serves as the template for your EC2 instance. The AMI includes the operating system and any additional software or configurations you need.
- e. Amazon S3

Amazon S3, is a separate service used for storage and is not directly related to launching EC2 instances



6

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question

Under what circumstances will Amazon Elastic Compute Cloud (EC2) instance store data not be preserved ?

Select one:

- a. The associated security groups are changed
- b. The instance is stopped or rebooted
- c. The instance is rebooted or terminated
- d. The instance is stopped or terminated
- e. The associated route tables are changed

When an EC2 instance with instance store (ephemeral storage) is stopped or terminated, the data on the instance store volumes will be lost. Instance store volumes are ephemeral, meaning they are not designed for data persistence, and any data stored on them is volatile.



Question 9

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Select benefits of using the cloud over traditional data centers.

Select one or more:

a. It has less powerful servers.

b. Data availability became more convenient with the use of the cloud.

c. It provides various forms of services like Software as a Service (SaaS), Infrastructure as a Service (IaaS), Platform as a Service (PaaS), etc

d. Time consuming

e. Its on-demand service allows the pay-as-you-use feature

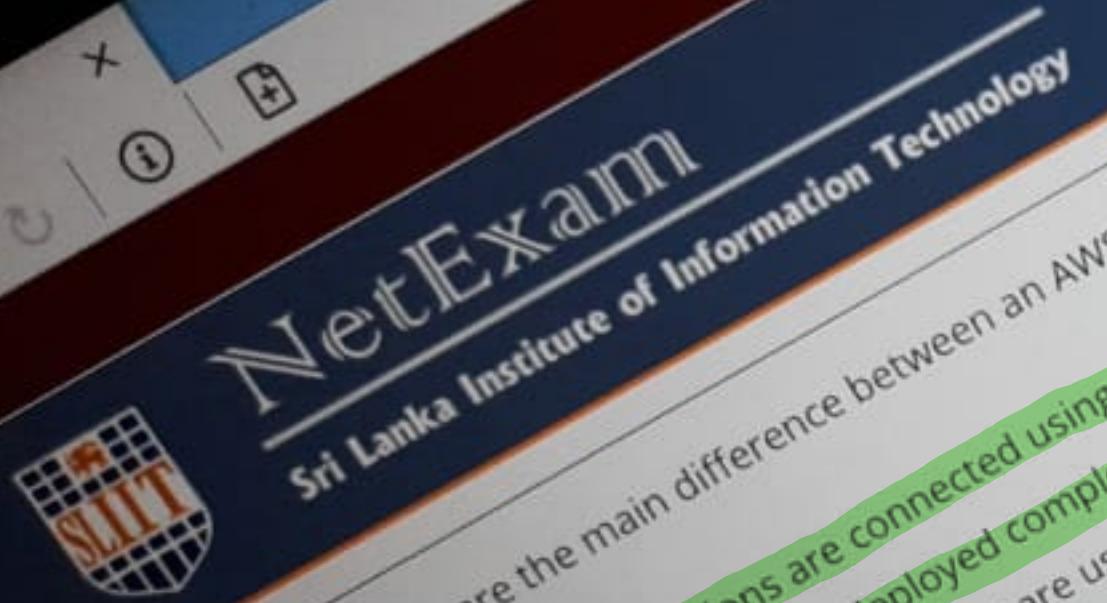
Cloud computing provides users with access to their data from anywhere with an internet connection. This makes it easier to collaborate on projects and access data remotely.

choose the services that they need and to scale their resources up or down as needed.

Cloud computing is an on-demand service, which means that businesses only pay for the resources that they use. This can help businesses to save money on IT costs.

Next page

Cloud computing providers typically have access to the latest and most powerful servers.



Question 8

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What are the main difference between an AWS Infrastructure Region and an AWS Availability Zones?

- 1) AWS regions are connected using public internet, but AWS regions are connected using the AWS high speed private network.
- 2) Each region is deployed completely independent to other regions, but availability zones are deployed with the region.
- 3) AWS availability zones are used to increase the availability of the user applications but not the AWS regions.

Select one:

- a. 1
- b. 2
- c. 1&2
- d. 2,3
- e. 1,2,3

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Section 9
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- e. No support for all users who want cloud services and resources on a subscription basis

Next Page

**Question 10**

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Flag question

Which of the following are characteristics of the Auto Scaling services on AWS ?

Select one or more:

- a. Sends traffic to healthy instances
- b. Responds to changing conditions by adding or terminating EC2 instances
- c. Collects and tracks metrics and sets alarms
- d. Launches instances from a specified Amazon Machine Image (AMI)
- e. Sends traffic to the instance that failed its health checks



Responds to changing conditions by adding or terminating EC2 instances: Auto Scaling monitors your application and automatically adds or removes capacity as needed to maintain your desired performance levels.

Collects and tracks metrics and sets alarms: Auto Scaling collects and tracks metrics, such as CPU utilization and memory usage, and sets alarms based on those metrics. When an alarm is triggered, Auto Scaling can automatically launch or terminate EC2 instances to scale your application up or down.

Launches instances from a specified Amazon Machine Image (AMI): When Auto Scaling launches EC2 instances, it launches them from a specified AMI. An AMI is a template that contains the operating system, applications, and configuration settings for your EC2 instances.



Question 6

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Elastic Load Balancing allows you to distribute traffic across which of the following?

Select one:

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Question 10
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- d. 1,2
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Question 11

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Which of the following is an optional security control that can be applied at the subnet layer of a VPC ?

Select one:

- a. Network ACL
- b. Security Group
- c. Firewall
- d. Web application firewall
- e. Gateways

Network ACLs (Access Control Lists) are stateless firewall rules that you can associate with a subnet in your Virtual Private Cloud (VPC) to control inbound and outbound traffic at the subnet level.

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- a. 1
- b. 2
- c. 1,2
- d. 2,3
- e. 1,2,3



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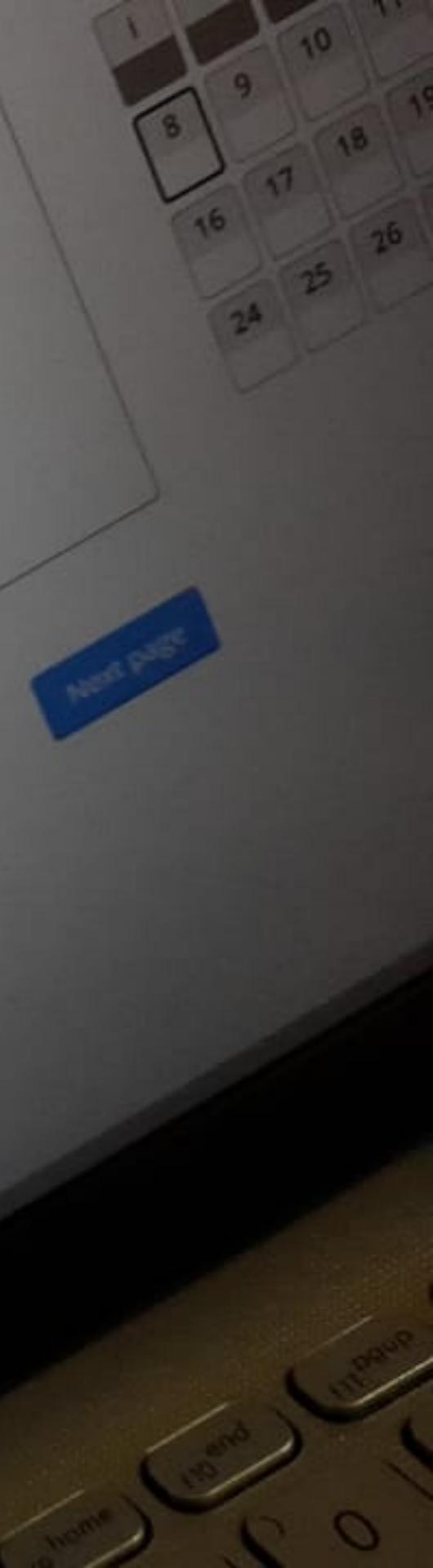
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Question 12

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How many IGWs can you attach to an Amazon VPC at any one time?

Select one:

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5

The answer is: a. 1

You can only attach one Internet Gateway (IGW) to an Amazon Virtual Private Cloud (VPC) at any one time.

Which of the following sentences explains the AMI in AWS context?

- 1) AMI is the short form for "Amazon Machine Image" and it is an "EC2 instance type".
- 2) An AMI can be used to create multiple EC2 instances with same configurations.
- 3) In an "autoscaling group", you can define an AMI from which the instances should be started.
- 4) In a "launch configuration", you can define an AMI from which the instances should be started.
- 5) You "cannot" create an AMI from an "existing EC2 instance".

Select one:

- a. 1, 5
- b. 2,4,5
- c. 1,2,4
- d. 2,4
- e. 1,3,4





Which Amazon Elastic Compute Cloud (EC2) pricing model allows you to pay a set hourly price for compute, giving you full control over when the instance launches and terminates?

Select one:

- a. Spot instances
- b. Reserved instance
- c. On demand instances
- d. Dedicated instances
- e. EC2 instances

With on-demand instances, you pay for compute capacity by the hour or by the second, depending on the instance type and region, and you have the flexibility to start and stop instances as needed without any upfront commitment or long-term contract. This pricing model is well-suited for applications with variable workloads or short-term projects.

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Question 12

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Which of the following is an edge-storage or content-delivery system that caches data in different physical locations ?

Select one:

- a. Amazon Associates Web Services
- b. Amazon Relational Database Service
- c. Amazon CloudFront
- d. Amazon SimpleDB
- e. Amazon S3

Amazon CloudFront is a content delivery network (CDN) service provided by AWS that caches and distributes content (such as web pages, images, videos, and other assets) to multiple edge locations around the world. This reduces latency and improves the delivery of content to end-users by serving it from the nearest edge location.

**Question 11**

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What happens when you create a new Amazon VPC ?

Select one:

- a. A main route table is created by default
- b. Three subnets are created by default - one for each AZ
- c. Three subnets are created by default in one AZ
- d. An IGW is created by default
- e. A NAT gateway is created by default

The default behavior is to create three subnets in different Availability Zones.

An Internet Gateway (IGW) is not created by default.

A NAT gateway is not created by default.



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- e. Sends traffic to the instance that failed its health checks





Question 12

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What aspect of an Amazon VPC is stateful ?

Select one:

- a. Network ACLs
- b. Security groups
- c. Amazon DynamoDB
- d. Amazon S3
- e. IAM roles





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Question 14

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What properties of an Amazon VPC must be specified at the time of creation ?

- Select one or more:
- a. The CIDR block representing the IP address range
 - b. One or more subnets for the Amazon VPC
 - c. The region for the Amazon VPC
 - d. Amazon VPC Peering relationships
 - e. Storage types

The CIDR block representing the IP address range: The CIDR block is the range of IP addresses that is assigned to your VPC. You can choose any CIDR block that is not already in use by AWS or another customer.

One or more subnets for the Amazon VPC: A subnet is a range of IP addresses in your VPC. You can create one or more subnets when you create your VPC.

The region for the Amazon VPC: You must choose a region where you want to create your VPC. AWS regions are physically separate geographic areas where AWS resources are located.

How can you connect to a new Linux instance using SSH ?

Select one:

- a. Decrypt the root password
- b. Using a certificate
- c. Using the private half of the instance's key pair
- d. Using Multi-Factor Authentication (MFA)
- e. Using IAM users

SSH (Secure Shell) authentication for Linux instances relies on key pairs, where you have a private key and a public key. You use the private key to authenticate and access the instance securely. You should never decrypt the root password for SSH access, and Multi-Factor Authentication (MFA) is an additional security layer but not the primary method for connecting via SSH. IAM users are typically used for AWS resource access control, not for SSH access to instances.

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Question 13

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What AWS Cloud Service provides a logically isolated section of the AWS Cloud where organizations can launch AWS resources in a virtual network that they define?

Select one:

- a. Amazon Simple Workflow Service (SWF)
- b. Amazon Route 53
- c. Amazon Virtual Private Cloud (VPC)
- d. AWS CloudFormation
- e. Amazon S3



Amazon Virtual Private Cloud (VPC) provides a logically isolated section of the AWS Cloud where organizations can launch AWS resources in a virtual network that they define. VPC allows you to have control over your network's IP address range, subnets, routing tables, security groups, and more, creating a private and isolated network environment within AWS.



1

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question

You create a new subnet and then add a route to your route table that routes traffic out from that subnet to the Internet using an IGW. What type of subnet have you created ?

Select one:

- a. An internal subnet
- b. A private subnet
- c. An external subnet
- d. A public subnet
- e. None of the mentioned

When you create a new subnet and add a route to your route table that routes traffic out to the Internet using an Internet Gateway (IGW), you have created a public subnet. In a public subnet, instances can access the Internet, making them suitable for hosting public-facing resources like web servers.



Which of the following is an edge-storage or content-delivery system that caches data in different physical locations ?

Select one:

- a. Amazon Associates Web Services
- b. Amazon Relational Database Service
- c. Amazon CloudFront
- d. Amazon SimpleDB
- e. Amazon S3





Question 13

Not yet answered

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Flag question

What happens when you create a new Amazon VPC ?

Select one:

- a. A main route table is created by default
- b. Three subnets are created by default - one for each AZ
- c. Three subnets are created by default in one AZ
- d. An IGW is created by default
- e. A NAT gateway is created by default





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Which of the following is the feature of SaaS (Software as a Service) ?

Select one or more:

- a. Multitenancy
- b. Reduces the price of IT infrastructure
- c. Time management
- d. Full control of the computing resources
- e. Administrative access to Virtual Machines

- a. Multitenancy - Correct. SaaS applications are typically designed to serve multiple customers (tenants) from a single software instance.
- b. Reduces the price of IT infrastructure - Generally true. SaaS can reduce the need for organizations to invest in and manage their own IT infrastructure, leading to potential cost savings.
- c. Time management - While SaaS itself is not specifically focused on time management, many SaaS applications do provide time management and productivity tools as part of their offerings.

Which of the following is an optional security control that can be applied at the subnet layer of a VPC ?

Select one:

- a. Network ACL
- b. Security Group
- c. Firewall
- d. Web application firewall
- e. Gateways



Cloud Computing Services

Software as a Service

Advantages

Accessibility: Ability to run via an internet browser 24/7 from any device

Operational Management: No installation, equipment updates or traditional licensing management

Cost Effective: No upfront hardware costs and flexible payment methods such as pay-as-you-go models

Data Storage: Data is routinely saved in the cloud

Challenges

Loss of Control: The vendor manages everything, making you dependent upon the vendor's capabilities

Limited Customization: Most SaaS applications offer little in the way of customization from the vendor

Security Risks: While the SaaS provider secures the application itself, strict measures should be taken with sensitive data



14

answered

out of

question

Select the elements of Amazon Virtual Private Cloud (VPC).

Select one or more:

- a. VPC
- b. Subnet
- c. Internet Gateway
- d. Load Balancer
- e. Database



VPC: A VPC is a logically isolated section of the AWS Cloud where you can launch AWS resources in a virtual network that you define.

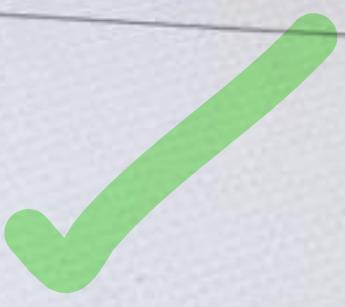
Subnet: A subnet is a range of IP addresses in your VPC. You launch AWS resources, such as Amazon EC2 instances, into your subnets.

Internet Gateway (IGW): An IGW enables your instances to connect to the internet through the Amazon EC2 network edge.

Load balancers and databases are not required elements of a VPC, but they are commonly used in VPCs.



Advantages of using an ELB could be



Select one or more:

- a. Can distribute same web traffic across "multiple EC2 servers"
- b. High availability
- c. Can route traffic to individual nodes based on the "content"
- d. Supports for auto scaling with auto scaling groups
- e. Can be used to host "web services"

Can distribute same web traffic across multiple EC2 servers.

High availability.

Can route traffic to individual nodes based on the "content".

Supports for auto scaling with auto scaling groups.

Can be used to host "web services".

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**Question 14**

Not yet answered

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1.00

Flag question

Select the elements of Amazon Virtual Private Cloud (VPC).

Select one or more:

- a. VPC
- b. Subnet
- c. Internet Gateway
- d. Load Balancer
- e. Database



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Select correct statement/s about VPC Peering.

Select one or more:

- a. It is the networking connection between two VPs in the same network.
- b. It is possible to create a VPC peering connection between your own VPs or VPC with another AWS account within the same region
- c. There is a need of a special hardware for VPC Peering.
- d. It is creating a VPN connection or network gateway within the AWS.
- e. Transitive connection is allowed.

[Next page](#)

VPC peering allows you to connect two VPCs together so that they can communicate with each other as if they were on the same network. You can create a VPC peering connection between your own VPCs, or with a VPC in another AWS account within the same region.

Transitive connection is not allowed with VPC peering. This means that if you have two VPCs that are peered together, and one of those VPCs is peered with a third VPC, the first and third VPCs will not be able to communicate with each other.



Question 23

Not yet answered

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Flag question

What Amazon Relational Database Service (RDS) feature provides the high availability for your database ?

Select one:

- a. Regular maintenance windows
- b. Security groups
- c. Automated backups
- d. Multi-AZ deployment
- e. DB Engine type

Amazon RDS provides high availability for your database through Multi-AZ (Availability Zone) deployment. With Multi-AZ, your database is replicated to a standby instance in a different Availability Zone, ensuring failover capabilities in case of a failure in the primary database instance. This feature enhances the availability and reliability of your Amazon RDS database.

What must you do to create a record of who accessed your Amazon Simple Storage Service (S3) data and from where?

Select one:

- a. Enable Amazon CloudWatch logs
- b. Enable versioning on the buckets
- c. Enable website hosting on the buckets
- d. Enable server access logs on the bucket
- e. Create an AWS IAM bucket policy

By enabling server access logs on an S3 bucket, you can capture detailed information about access requests, including the requester's IP address, the requested object, and whether the request was successful or not. This helps you track and analyze access to your S3 data.



Question 11

Not yet answered

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Flag question

What AWS Cloud Service provides a logically isolated section of the AWS Cloud where organizations can launch AWS resources in a virtual network that they define ?

Select one:

- a. Amazon Simple Workflow Service (SWF)
- b. Amazon Route 53
- c. Amazon Virtual Private Cloud (VPC)
- d. AWS CloudFormation
- e. Amazon S3

Amazon Virtual Private Cloud (VPC) provides a logically isolated section of the AWS Cloud where organizations can launch AWS resources in a virtual network that they define. VPC allows you to have control over your network's IP address range, subnets, routing tables, security groups, and more, creating a private and isolated network environment within AWS.

Next page

What AWS Cloud Service provides a logically isolated section of the AWS Cloud where organizations can launch AWS resources in a virtual network that they define ?

Select one:

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- b. Amazon Route 53
- c. Amazon Virtual Private Cloud (VPC)
- d. AWS CloudFormation
- e. Amazon S3

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25

answered
out of

question

Which AWS database service is best suited for traditional Online Transaction Processing (OLTP) ?

Select one:

- a. Amazon Redshift
- b. Amazon RDS
- c. Amazon Glacier
- d. Elastic Database
- e. Amazon DynamoDB

Amazon RDS (Relational Database Service) is best suited for traditional Online Transaction Processing (OLTP) workloads. It offers managed relational database engines like MySQL, PostgreSQL, SQL Server, and others, which are well-suited for OLTP applications that require structured and ACID-compliant data storage and retrieval. Amazon RDS handles many of the administrative tasks associated with database management, allowing you to focus on your application logic.



How is data stored in Amazon S3 for high durability ?

Select one:

- a. Data is automatically replicated to other regions
- b. Data is automatically replicated to different AZ within a region
- c. Data is replicated only if versioning is enabled on the bucket
- d. Data is automatically backed up on tape and restored if needed
- e. Data is automatically replicated to different AZ in different regions

Amazon S3 (Simple Storage Service) automatically replicates data to different Availability Zones (AZs) within the same region to ensure high durability and availability. This replication provides redundancy and safeguards against hardware failures or issues within a single AZ. Amazon S3 also offers the option to replicate data across different regions (option a), further enhancing data durability and disaster recovery capabilities, but it's not automatic and requires configuration.



12
answered
out of
question

What is the maximum size IP address range that you can have in an Amazon VPC?

Select one:

- a. /16
- b. /24
- c. /28
- d. /30
- e. /25

AWS between /16 netmask to /28 netmask



In an Amazon Virtual Private Cloud (VPC), the maximum size IP address range you can have is a /16 subnet. This provides a range of 65,536 IP addresses.

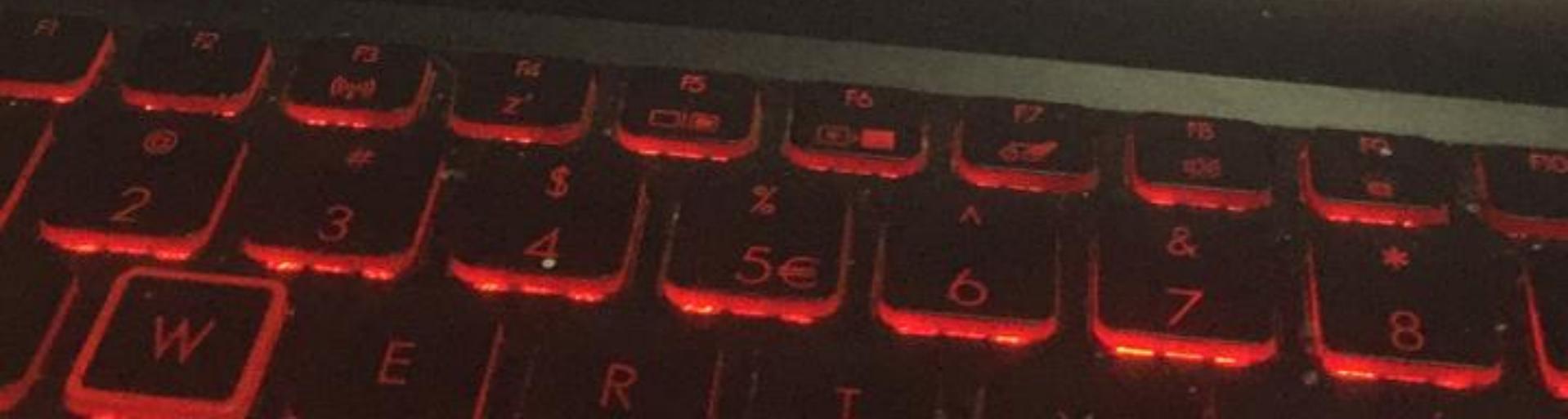
$$\text{max_ip_addresses} = 2^{32-16}$$

This is equal to 65,536.

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Question 17
Not yet answered
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Flag question

How is data stored in Amazon S3 for high durability?

Select one:

- a. Data is automatically replicated to other regions
- b. Data is automatically replicated to different AZ within a region
- c. Data is replicated only if versioning is enabled on the bucket
- d. Data is automatically backed up on tape and restored if needed
- e. Data is automatically replicated to different AZ in different regions

Next page

Amazon S3 (Simple Storage Service) automatically replicates data to different Availability Zones (AZs) within the same region to ensure high durability and availability. This replication provides redundancy and safeguards against hardware failures or issues within a single AZ. While you can configure cross-region replication (option a) for additional durability, the automatic replication within the same region to different AZs is the primary mechanism for high durability in S3.



Question 15

yet answered

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Select the Network Gateway Services.

Select one or more:

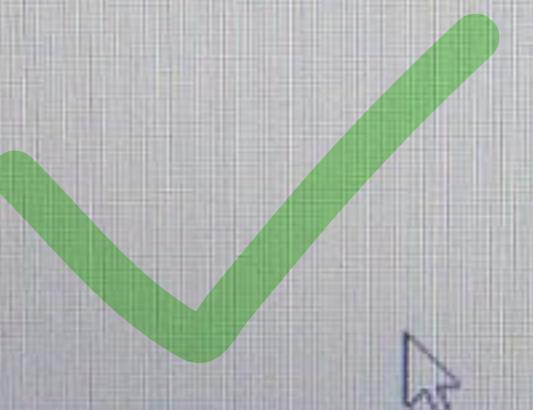
- a. Internet Gateway
- b. NAT Gateway
- c. VPN Gateway
- d. Network Transfer Gateway
- e. VPC Gateway

Select the “correct” statement regarding EBS ?

- 1) EBS stands for “EC2 Block Storage”
- 2) EBS is same as S3
- 3) It is a Database service
- 4) It is a type of a load balancer.
- 5) ESB can be attached to an EC2 instance

Select one:

- a. 1
- b. 2,3
- c. 5
- d. 2,3,5
- e. 4,5





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Question 18

yet answered

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Flag question

Amazon S3 is an eventually consistent storage system. For what kinds of operations is it possible to get stale data as a result of eventual consistency?

Select one:

- a. GET after PUT of a new object
- b. GET or LIST after a ~~DELET~~^{rm}
- c. GET after overwrite PUT (PUT to an existing key)
- d. DELETE after GET of a new object
- e. GET after DELETE of a new object

Next page

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Which features can be used to restrict access to Amazon S3 data ?

Select one or more:

- a. Enable static website hosting on the bucket
- b. Create a pre-signed URL for an object
- c. Use an Amazon S3 Access Control List (ACL) on a bucket or object
- d. Use lifecycle policy
- e. Use an Amazon S3 bucket policy



You have a distributed application that periodically processes large volumes of data across multiple Amazon EC2 Instances. The application is designed to recover gracefully from Amazon EC2 instance failures. You are required to accomplish this task in the most cost effective way.

Which of the following will meet your requirements ?

Select one:

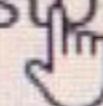
- a. On demand instance
- b. Reserved instance
- c. Spot instance
- d. Dedicated instance
- e. None of the mentioned

Using Spot instances is the most cost-effective option for a distributed application that can recover gracefully from Amazon EC2 instance failures. Spot instances are spare Amazon EC2 instances that are available at a significantly lower cost compared to On-Demand and Reserved instances. While they offer substantial cost savings, they come with the caveat that they can be terminated with very little notice (usually two minutes) when the capacity is needed elsewhere.

Based on the following Amazon S3 URL, which one of the following statements is correct?

<https://bucket1.abc.com.s3.amazonaws.com/folder1/myfile.doc>

Select one:

- a. The object "myfile.doc" is stored in the folder "folder1" in the bucket "bucket1.abc.com"
- b. The object "myfile.doc" is stored in the bucket "bucket1.abc.com"
- c. The object "folder1 myfile.doc" is stored in the bucket "bucket1.abc.com"
- d. The object "myfile.doc" is stored in the bucket "bucket1"

- e. The object "folder1" is stored in the bucket "bucket1"

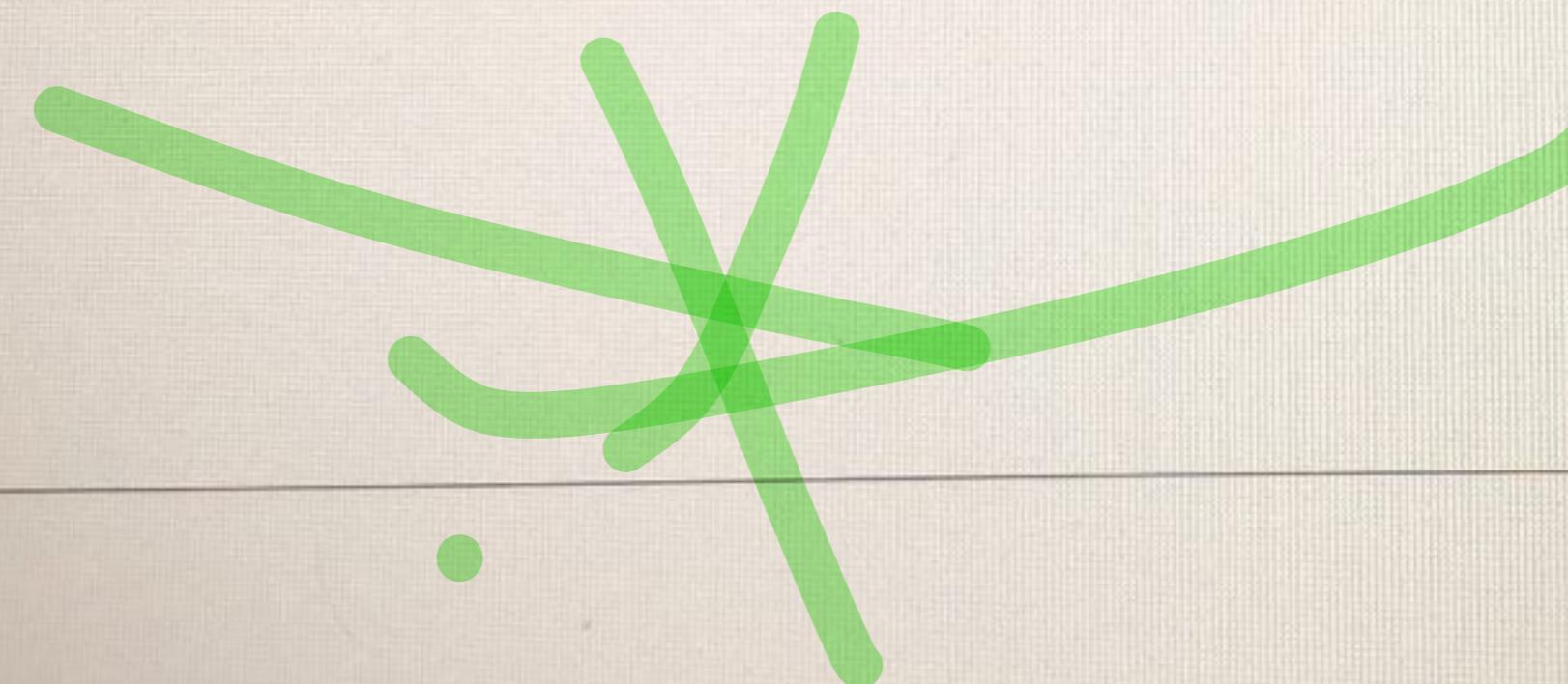


What are the “incorrect” statements regarding AWS RDS

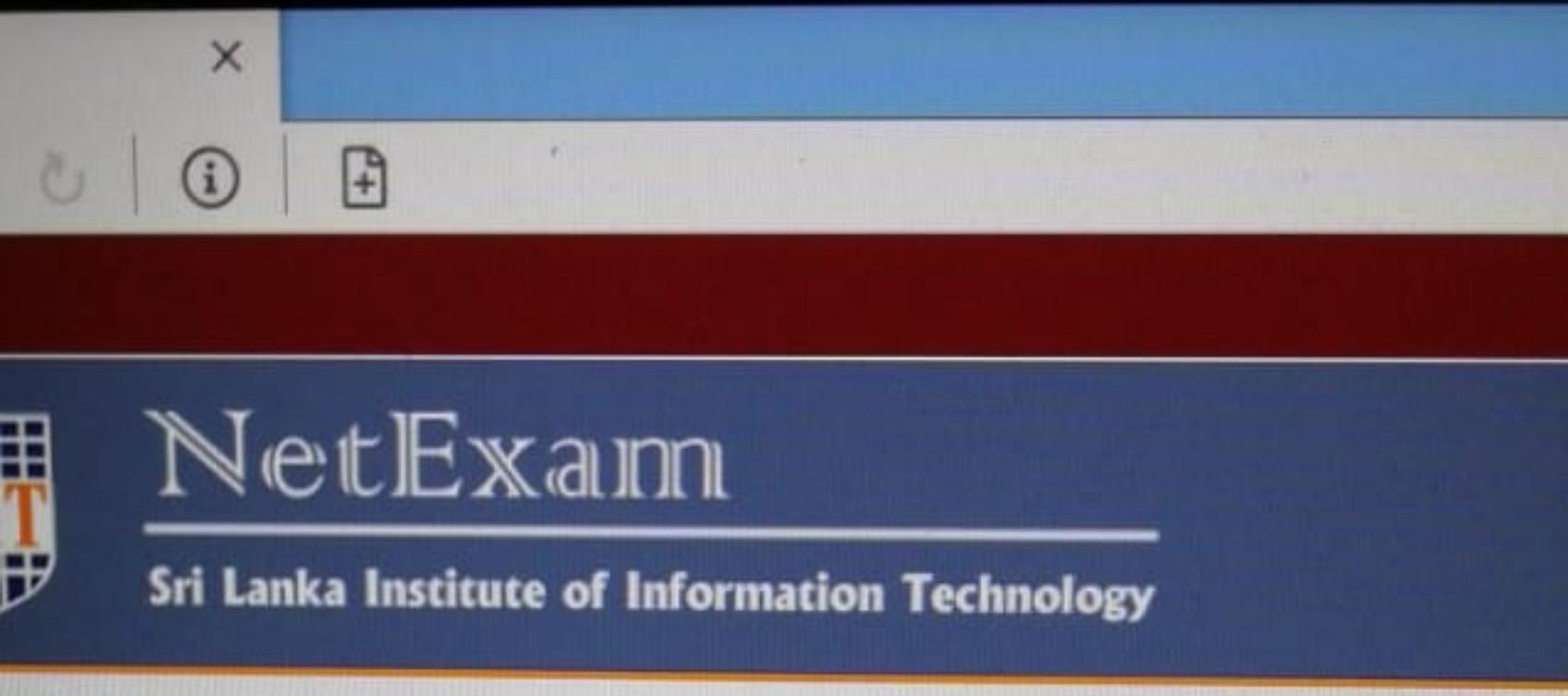
- 1) RDS stands for Relational Database Server
- 2) AWS has only MySQL in RDS
- 3) You can SSH to RDS server
- 4) One requirement to access MySQL RDS is to make sure security groups associated with RDS allows port 3306 to be connected from the source.
- 5) You can create a snapshot of RDS instance

Select one:

- a. 1,2,3
- b. 1,2,5
- c. 2,3,5
- d. 2,3,4
- e. 4,5



Next page



The image shows a software interface titled "NetExam" from "Sri Lanka Institute of Information Technology". The interface has a blue header bar with standard window controls (X, Minimize, Maximize) and a toolbar below it with icons for refresh, info, and add. The main area has a dark blue background with the "NetExam" logo on the left. The logo consists of a shield with a grid pattern and a letter "T" in the center.

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Which Amazon RDS database engines support Multi-AZ ?

Select one:

- a. Only oracle and MySQL
- b. All of the available DB engines
- c. Only Microsoft SQL Server, MySQL and Oracle
- d. Only Oracle, Amazon Aurora and PostgreSQL
- e. Only MySQL

Amazon RDS supports Multi-AZ
deployments for the following
database engines:
Microsoft SQL Server
MySQL
Oracle

Which is a function that Amazon Route 53 does not perform ?

Select one:

- a. Domain registration
- b. DNS service
- c. Load Balancing
- d. Health checks
- e. Store data



Amazon Route 53 is a scalable and highly available domain name system (DNS) web service that performs domain registration, DNS service, load balancing, and health checks. However, it does not serve as a data storage service. It is primarily used for DNS and related services, not for storing data.

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In which ways does Amazon S3 object storage differ from block and file storage?

Select one or more:

- a. Amazon S3 stores data in fixed size blocks
- b. Objects are identified by a numbered address
- c. Objects can be any size
- d. Objects contain both data and metadata
- e. Objects are stored in buckets

Question 20
Not yet answered
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Flag question

ASUS VivoBook

The image shows a screenshot of a web-based examination system. The main content is a question about Amazon S3 object storage. The question asks for differences from block and file storage. Five options are provided, with the last three being correct and highlighted with green ovals. The correct options are: "Objects can be any size - Amazon S3 allows objects to be of varying sizes, from small files to large datasets.", "Objects contain both data and metadata - Each object in Amazon S3 includes both the data itself and metadata (attributes) associated with that object.", and "Objects are stored in buckets - Objects in Amazon S3 are organized into "buckets" where they are stored and managed.".



Which AWS database service is best suited for traditional Online Transaction Processing (OLTP) ?

Select one:

- a. Amazon Redshift
- b. Amazon RDS
- c. Amazon Glacier
- d. Elastic Database
- e. Amazon DynamoDB

Amazon RDS (Relational Database Service) is well-suited for traditional Online Transaction Processing (OLTP) workloads. It provides a managed relational database service that supports various database engines like MySQL, PostgreSQL, Oracle, SQL Server, and Amazon Aurora. OLTP workloads, which involve frequent and fast database transactions, are commonly handled by relational databases, making Amazon RDS a suitable choice for such use cases.

Which AWS database service is best suited for traditional Online Analytics Processing (OLAP) ?

Select one:

- a. Amazon Redshift
- b. Amazon RDS
- c. Amazon Glacier
- d. Elastic Database
- e. Amazon DynamoDB

Amazon RDS (Relational Database Service) is well-suited for traditional Online Transaction Processing (OLTP) workloads. It provides a managed relational database service that supports various database engines like MySQL, PostgreSQL, Oracle, SQL Server, and Amazon Aurora. OLTP workloads, which involve frequent and fast database transactions, are commonly handled by relational databases, making Amazon RDS a suitable choice for such use cases.

Amazon S3 is an eventually consistent storage system. For what kinds of operations is it possible to get stale data as a result of eventual consistency?

Select one:

- a. GET after PUT of a new object
- b. GET or LIST after a DELETE
- c. GET after overwrite PUT (PUT to an existing key)
- d. DELETE after GET of a new object
- e. GET after DELETE of a new object

GET after overwrite PUT, it is possible to get the previous version of the object if the replication process has not yet completed. This is because the GET operation may be routed to a replica that has not yet received the updated version of the object.

Next

Amazon S3 bucket policies can restrict access to an Amazon S3 bucket and objects by which of the following

Select one or more:

- a. Company name
- b. IP address range
- c. AWS account
- d. Country of origin
- e. Objects with a specific prefix





Question 19

yet answered

Marked out of

Flag question

Based on the following Amazon S3 URL, which one of the following statements is correct?

<https://bucket1.abc.com.s3.amazonaws.com/folder1/myfile.doc>

Select one:

- a. The object "myfile.doc" is stored in the folder "folder1" in the bucket "bucket1.abc.com"
- b. The object "myfile.doc" is stored in the bucket "bucket1.abc.com"
- c. The object "folder1/myfile.doc" is stored in the bucket "bucket1.abc.com"
- d. The object "myfile.doc" is stored in the bucket "bucket1"
- e. The object "folder1" is stored in the bucket "bucket1"



Next page



Question 21

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Amazon S3 bucket policies can restrict access to an Amazon S3 bucket and objects by which of the following?

Select one or more:

- a. Company name
- b. IP address range
- c. AWS account
- d. Country of origin
- e. Objects with a specific prefix



- b. IP address range - You can specify IP address ranges or CIDR blocks to restrict access to your S3 bucket based on the source IP addresses.
- c. AWS account - You can specify AWS account IDs to allow or deny access to your S3 bucket and objects based on the AWS accounts that are trying to access them.
- e. Objects with a specific prefix - You can define policies that restrict access to objects in the bucket based on their object keys (i.e., their names or prefixes).

Next page

What are some of the key characteristics of Amazon S3 ?

Select one or more:

- a. All objects have a URL
- b. Amazon S3 can store unlimited amounts of data
- c. Objects are world-readable by default
- d. Amazon S3 uses REST API
- e. You must pre-allocate the storage in a bucket

Which service offered by Amazon will you choose if you want to collect and process e-commerce data for near real-time analysis ?

Select one or more:

- a. DynamoDB
- b. RedShift
- c. Amazon Aurora
- d. SimpleDB
- e. Amazon ElastiCache





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Question 23
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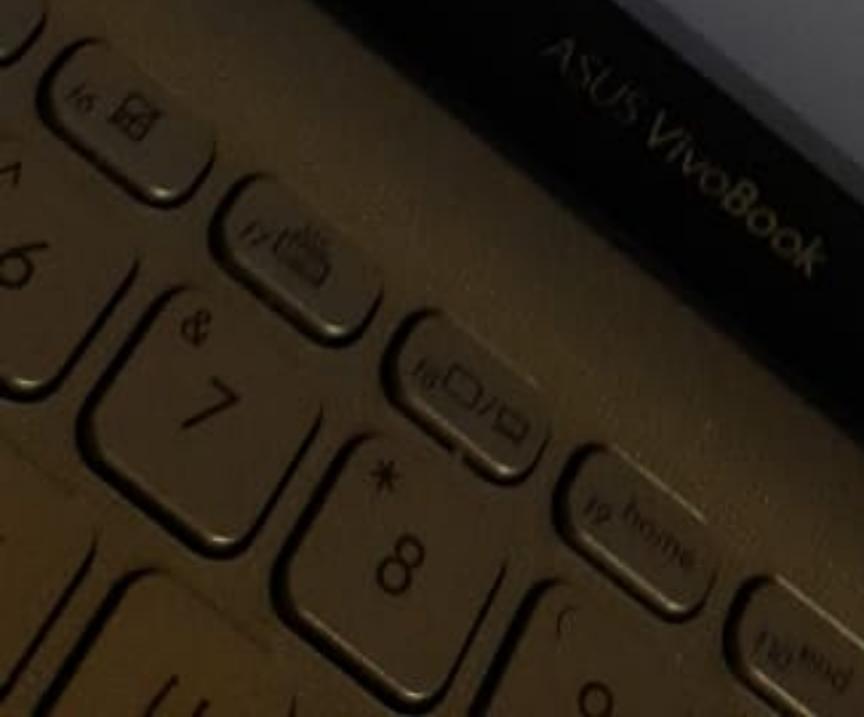
Which AWS database service is best suited for traditional Online Transaction Processing(OLTP)?

Select one:

- a. Amazon Redshift
- b. Amazon RDS
- c. Amazon Glacier
- d. Elastic Database
- e. Amazon DynamoDB

Amazon RDS (Relational Database Service) is the AWS database service best suited for traditional Online Transaction Processing (OLTP) workloads. It provides managed relational databases, including options for MySQL, PostgreSQL, Oracle, SQL Server, and Amazon Aurora. OLTP workloads, which involve frequent and fast database transactions, are commonly handled by relational databases, making Amazon RDS a suitable choice for such use cases.

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Which of the following are features of Amazon Elastic Block Store (EBS) ?

Select one or more:

- a. Data stored on Amazon EBS is automatically replicated within an AZ
- b. Amazon EBS data is automatically backed up to tape
- c. Amazon EBS volumes can be encrypted transparently to workloads on the attached instance
- d. Data on an Amazon EBS volume is lost when the attached instance is stopped
- e. Data stored on Amazon EBS is in file format



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on 24

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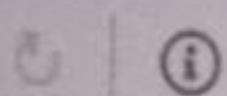
What Amazon Relational Database Service (RDS) feature provides the high availability for your database?

Select one:

- a. Regular maintenance windows
- b. Security groups
- c. Automated backups
- d. Multi-AZ deployment
- e. DB Engine type



X



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Which of the following are **not appropriate** use cases for Amazon S3 ?

Select one or more:

- a. Storing web content
- b. Storing a file system mounted to an Amazon EC2 instance
- c. Storing backups for a relational database
- d. Primary storage for a database
- e. Storing logs for analytics

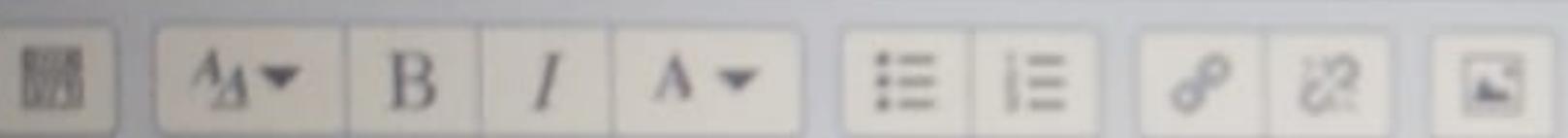


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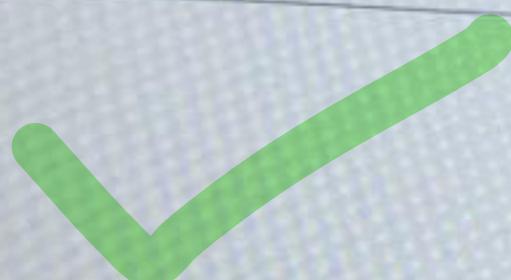
maru habal

I

Which features can be used to restrict access to Amazon S3 data ?

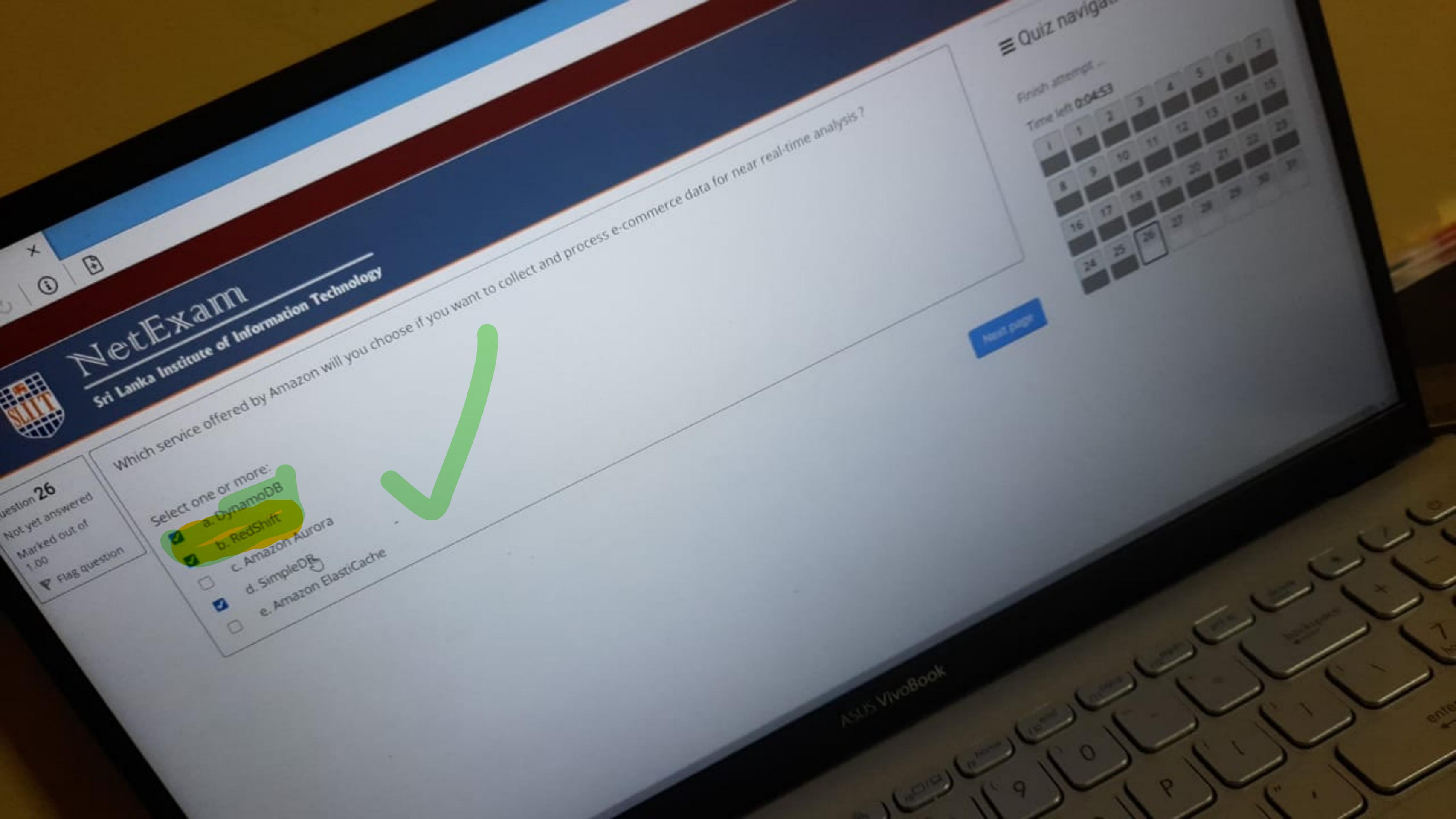
Select one or more:

- a. Enable static website hosting on the bucket
- b. Create a pre-signed URL for an object
- c. Use an Amazon S3 Access Control List (ACL) on a bucket or object
- d. Use lifecycle policy
- e. Use an Amazon S3 bucket policy



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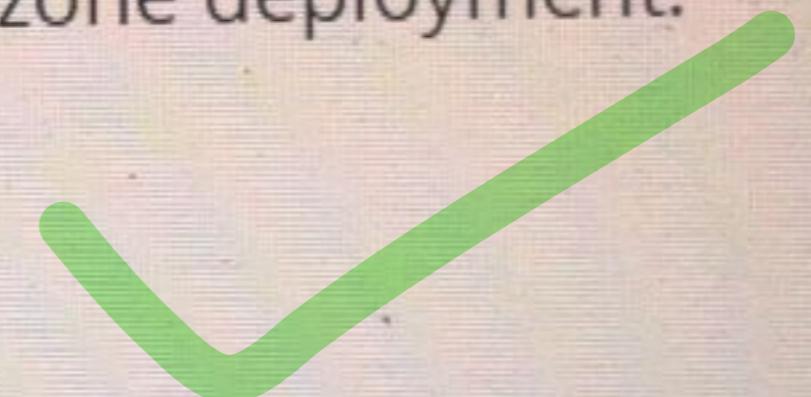
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Select feature/s of the Amazon Relational Database Service (RDS).

Select one or more:

- a. Amazon RDS is highly scalable.
- b. It is highly secured as it lets you run database instances in Amazon Virtual Private Cloud.
- c. It does not support for Multi-availability zone deployment.
- d. It is a highly reliable infrastructure
- e. Using Amazon RDS is very expensive





3

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Question



You have an EC2 instance and an MySQL RDS instance. You need to allow MySQL access to RDS "only from that EC2 instance". What would be your approach ?

Select one:

- a. Create 2 security groups and assign to RDS and EC2 separately. Allow EC2 security group to SSH to RDS (port 22).
- b. Create a security group and assign both RDS and EC2 to that security group and open port 3306 globally.
- c. Create a security group and assign both RDS and EC2 to that security group and open port 3306 to the entire EC2 subnet.
- d. Create 2 security groups and assign to RDS and EC2 separately. In EC2 security group, allow RDS security group as the source to connect to EC2 port 3306.
- e. Create 2 security groups and assign to RDS and EC2 separately. In RDS security group, allow EC2 security group as the source to connect to RDS port 3306.



Finish

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17

24

25

Next page

Your firm wants to connect the data center of its organization to the Amazon cloud environment for faster accessibility and performance. Following actions can be suggested for the stated scenario.

- A. The data center of the firm can be connected to the Amazon cloud environment with the help of VPC (Virtual Private Cloud).
- B. Establish a virtual private network and then connect VPC and the data center.
- C. Create multiple backups of the company data before moving it successfully to the cloud.

Select the suitable suggestions.

Select one:

- a. A
- b. B
- c. A,B
- d. B,C
- e. A,B,C

You have a video trans-coding application. The videos are processed according to a queue. If the processing of a video is interrupted in one instance, it is resumed in another instance. Currently there is a huge back-log of videos which needs to be processed, for this you need to add more instances, but you need these instances only until your backlog is reduced.

Which of these would be an efficient way to do it ?

Select one:

- a. On demand instance
- b. Reserved instance
- c. Spot instance
- d. Dedicated instance
- e. None of the mentioned



Using Spot instances would be an efficient way to add more instances to process the backlog of videos in your video trans-coding application. Spot instances offer cost savings compared to On-Demand instances, making them a cost-effective choice for temporary, high-capacity workloads like clearing a backlog. Spot instances are available at a significantly lower price but can be terminated when the capacity is needed elsewhere. Since your application can recover gracefully from interruptions, this is a suitable option for your scenario. Once the backlog is reduced, you can terminate the Spot instances.

Your organization has decided to transfer its business processes to the public cloud. However, they want some of their information/data to be accessed only by the management team. The rest of the resources will be shared among the employees of the firm.

Select suitable cloud architecture for your firm.

Select one:

- a. Private Cloud
- b. Public Cloud
- c. Hybrid Cloud
- d. Community Cloud
- e. Enterprise Cloud



A hybrid cloud architecture allows your organization to use a combination of both public and private cloud resources. In your scenario, you can use the private cloud portion of the hybrid cloud for storing and managing sensitive information/data that is only accessible by the management team. The rest of the resources can be hosted in the public cloud, shared among the employees of the firm. This approach provides flexibility and security, addressing the specific access requirements of your organization.

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Question 30

Not yet answered

Marked out of
1.00

Flag question

Your company experiences fluctuations in traffic patterns to their e-commerce website based on flash sales. What service can help your company dynamically match the required compute capacity to the spike in traffic during flash sales?

Select one:

- a. Auto Scaling
- b. Amazon Glacier
- c. Amazon Simple Notification Service (SNS)
- d. Amazon Virtual Private Cloud (VPC)
- e. Amazon EC2

Auto Scaling is the AWS service that can help your company dynamically match the required compute capacity to the spike in traffic during flash sales. It automatically adjusts the number of Amazon EC2 instances in your application fleet to handle changes in demand. This means you can configure Auto Scaling to add more instances when traffic increases (e.g., during flash sales) and remove instances when traffic decreases, ensuring that your application can handle varying levels of load efficiently and cost-effectively.

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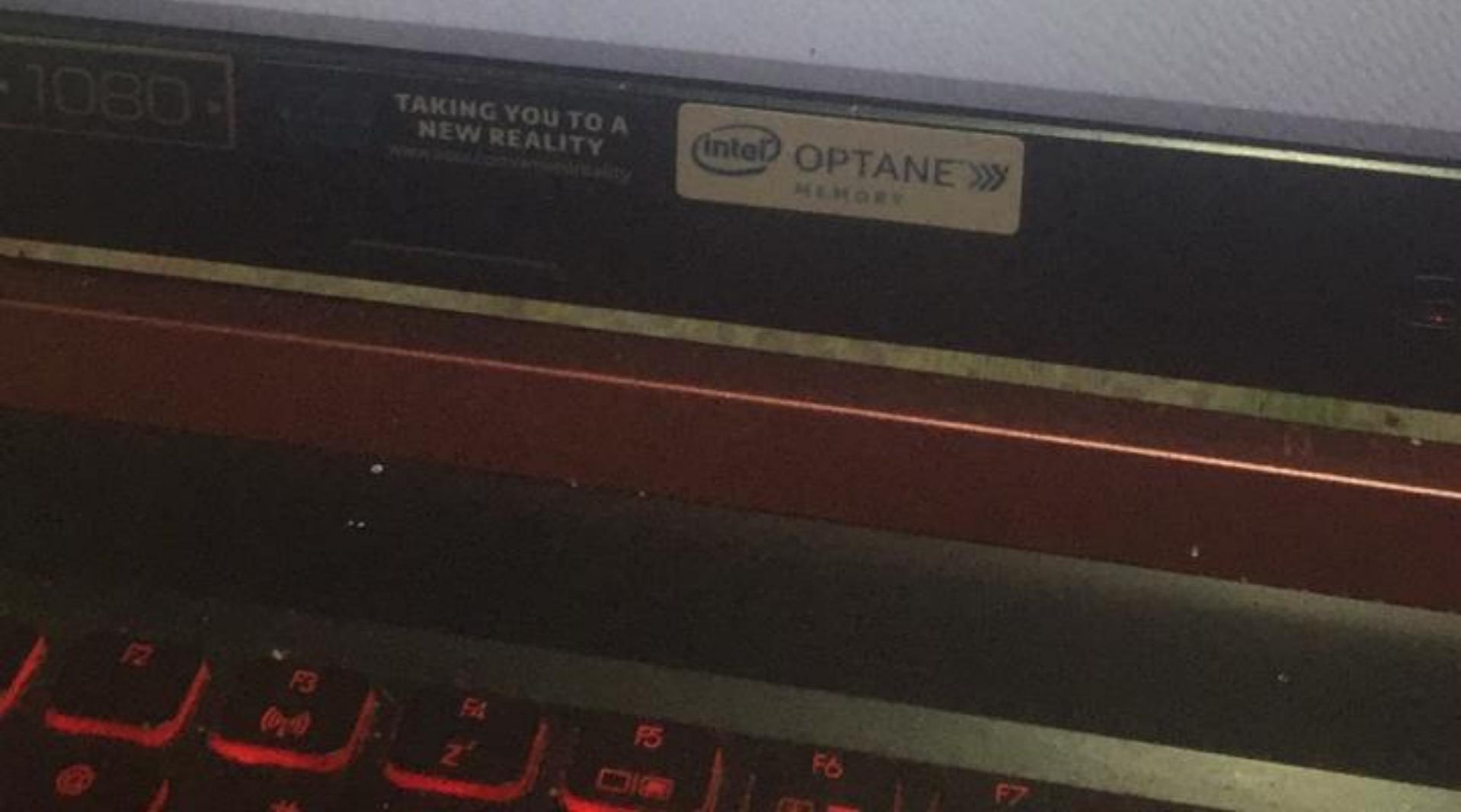
Which of the following use cases is well suited for Amazon Redshift ?

Select one:

- a. A 500 TB data warehouse used for market analytics
- b. A NoSQL, unstructured database workload
- c. A high traffic, e-commerce web application
- d. An in-memory cache
- e. None of the above

a. A 500 TB data warehouse used for market analytics

Amazon Redshift is a fully managed data warehousing service designed for large-scale analytics and data warehousing workloads. It is optimized for handling large datasets and complex queries, making it well-suited for scenarios like a 500 TB data warehouse used for market analytics. Redshift's columnar storage and parallel query processing capabilities are particularly advantageous for such analytical use cases.





Question 27

Not yet answered

Marked out of
1.00

Flag question

Select some of the better alternatives to Amazon RDS.

Select one or more:

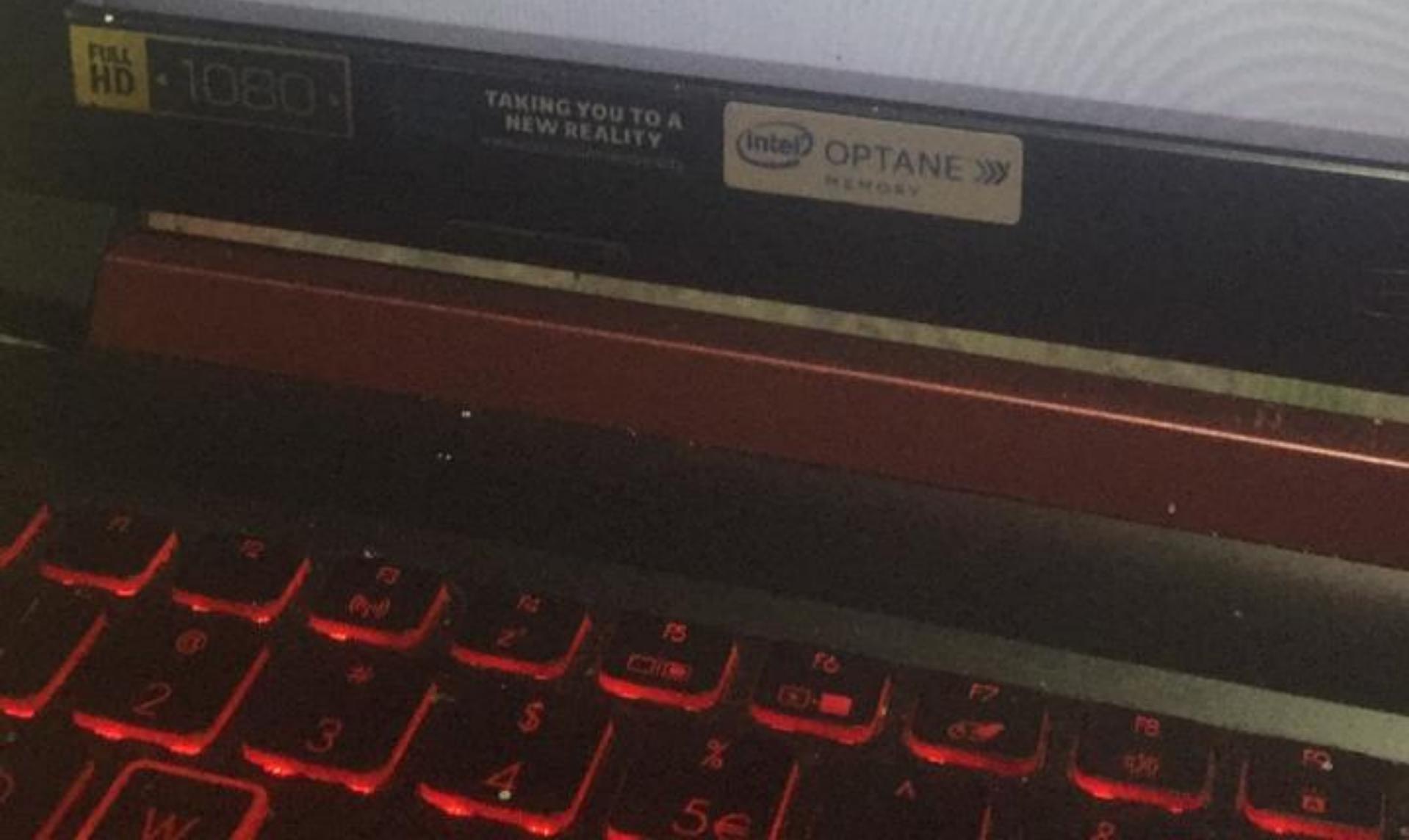
- a. Amazon Aurora
- b. Azure SQL Database
- c. Amazon DynamoDB
- d. MongoDB Atlas
- e. Amazon ElastiCache

Amazon Aurora: Aurora is a fully managed, relational database that is compatible with MySQL and PostgreSQL. It is up to five times faster than MySQL and PostgreSQL, and it is up to three times more cost-effective.

Azure SQL Database: Azure SQL Database is a fully managed, relational database service that is compatible with Microsoft SQL Server. It offers a variety of features, such as built-in intelligence, high availability, and security.

Amazon DynamoDB: DynamoDB is a fully managed, NoSQL database service that is designed for fast and predictable performance at any scale. It is a good choice for applications that require high throughput and low latency.

MongoDB Atlas: MongoDB Atlas is a fully managed, NoSQL database service that is compatible with MongoDB. It offers a variety of features, such as global replication, automatic scaling, and security.



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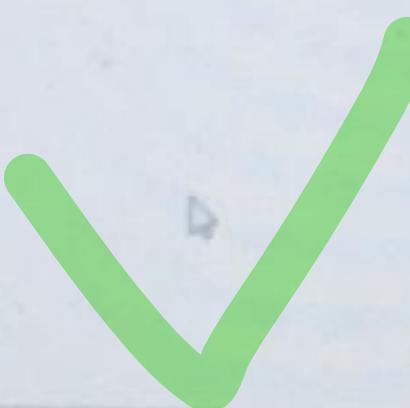
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Flag question

You have a distributed application that periodically processes large volumes of data across multiple Amazon EC2 instances. The application is designed to recover gracefully from Amazon EC2 instance failures. You are required to accomplish this task in the most cost effective way. Which of the following will meet your requirements ?

Select one:

- a. On demand instance
- b. Reserved instance
- c. Spot instance
- d. Dedicated instance
- e. None of the mentioned



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