

Explanation:

Amazon RDS provides high availability and failover support for DB instances using Multi-AZ deployments. In a Multi-AZ deployment, Amazon RDS automatically provisions and maintains a synchronous standby replica in a different Availability Zone. The primary DB instance is synchronously replicated across Availability Zones to a standby replica to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups. Running a DB instance with high availability can enhance availability during planned system maintenance, and help protect your databases against DB instance failure and Availability Zone disruption. Note that the high-availability feature is not a scaling solution for read-only scenarios; you cannot use a standby replica to serve read traffic. To service read-only traffic, you should use a read replica.

QUESTION 102

An organization is setting up programmatic billing access for their AWS account. Which of the below mentioned services is not required or enabled when the organization wants to use programmatic access?

- A. Programmatic access
- B. AWS bucket to hold the billing report
- C. AWS billing alerts
- D. Monthly Billing report

Correct Answer: C

Explanation:

AWS provides an option to have programmatic access to billing. Programmatic Billing Access leverages the existing Amazon Simple Storage Service (Amazon S3) APIs. Thus, the user can build applications that reference his billing data from a CSV (comma-separated value) file stored in an Amazon S3 bucket. To enable programmatic access, the user has to first enable the monthly billing report. Then the user needs to provide an AWS bucket name where the billing CSV will be uploaded. The user should also enable the Programmatic access option.

QUESTION 103

A user has stored data on an encrypted EBS volume. The user wants to share the data with his friend's AWS account. How can user achieve this?

- A. Create an AMI from the volume and share the AMI
- B. Copy the data to an unencrypted volume and then share
- C. Take a snapshot and share the snapshot with a friend
- D. If both the accounts are using the same encryption key then the user can share the volume directly

Correct Answer: B

Explanation:

AWS EBS supports encryption of the volume. It also supports creating volumes from existing snapshots provided the snapshots are created from encrypted volumes. If the user is having data on an encrypted volume and is trying to share it with others, he has to copy the data from the encrypted volume to a new unencrypted volume. Only then can the user share it as an encrypted volume data. Otherwise the snapshot cannot be shared.

QUESTION 104

A user is planning to setup notifications on the RDS DB for a snapshot. Which of the below mentioned event categories is not supported by RDS for this snapshot source type?

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- A. Backup
- B. Creation
- C. Deletion
- D. Restoration

Correct Answer: A

Explanation:

Amazon RDS uses the Amazon Simple Notification Service to provide a notification when an Amazon RDS event occurs. Event categories for a snapshot source type include: Creation, Deletion, and Restoration. The Backup is a part of DB instance source type.

QUESTION 105

A user has created a web application with Auto Scaling. The user is regularly monitoring the application and he observed that the traffic is highest on Thursday and Friday between 8 AM to 6 PM. What is the best solution to handle scaling in this case?

- A. Add a new instance manually by 8 AM Thursday and terminate the same by 6 PM Friday
- B. Schedule Auto Scaling to scale up by 8 AM Thursday and scale down after 6 PM on Friday
- C. Schedule a policy which may scale up every day at 8 AM and scales down by 6 PM
- D. Configure a batch process to add a instance by 8 AM and remove it by Friday 6 PM

Correct Answer: B

Explanation:

Auto Scaling based on a schedule allows the user to scale the application in response to predictable load changes. In this case the load increases by Thursday and decreases by Friday. Thus, the user can setup the scaling activity based on the predictable traffic patterns of the web application using Auto Scaling scale by Schedule.

QUESTION 106

A user has launched an EC2 instance. The user is planning to setup the CloudWatch alarm. Which of the below mentioned actions is not supported by the CloudWatch alarm?

- A. Notify the Auto Scaling launch config to scale up
- B. Send an SMS using SNS
- C. Notify the Auto Scaling group to scale down
- D. Stop the EC2 instance

Correct Answer: B

Explanation:

A user can create a CloudWatch alarm that takes various actions when the alarm changes state. An alarm watches a single metric over the time period that the user has specified, and performs one or more actions based on the value of the metric relative to a given threshold over a number of time periods. The actions could be sending a notification to an Amazon Simple Notification Service topic (SMS, Email, and HTTP end point), notifying the Auto Scaling policy or changing the state of the instance to Stop/Terminate.

QUESTION 107

A root account owner has created an S3 bucket testmycloud. The account owner wants to allow everyone to upload the objects as well as enforce that the person who uploaded the object should manage the permission of those objects. Which is the easiest way to achieve this?

- A. The root account owner should create a bucket policy which allows the IAM users to upload the

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object.

- B. The root account owner should create the bucket policy which allows the other account owners to set the object policy of that bucket.
- C. The root account should use ACL with the bucket to allow everyone to upload the object.
- D. The root account should create the IAM users and provide them the permission to upload content to the bucket.

Correct Answer: C

Explanation:

Each AWS S3 bucket and object has an ACL (Access Control List. associated with it. An ACL is a list of grants identifying the grantee and the permission granted. The user can use ACLs to grant basic read/write permissions to other AWS accounts. ACLs use an Amazon S3-specific XML schema. The user cannot grant permissions to other users in his account. ACLs are suitable for specific scenarios. For example, if a bucket owner allows other AWS accounts to upload objects, permissions to these objects can only be managed using the object ACL by the AWS account that owns the object.

QUESTION 108

A user has configured ELB with two EBS backed EC2 instances. The user is trying to understand the DNS access and IP support for ELB. Which of the below mentioned statements may not help the user understand the IP mechanism supported by ELB?

- A. The client can connect over IPV4 or IPV6 using Dualstack
- B. ELB DNS supports both IPV4 and IPV6
- C. Communication between the load balancer and back-end instances is always through IPV4
- D. The ELB supports either IPV4 or IPV6 but not both

Correct Answer: D

Explanation:

Elastic Load Balancing supports both Internet Protocol version 6 (IPv6. and Internet Protocol version 4 (IPv4.. Clients can connect to the user's load balancer using either IPv4 or IPv6 (in EC2-Classic. DNS. However, communication between the load balancer and its back-end instances uses only IPv4. The user can use the Dualstack-prefixed DNS name to enable IPv6 support for communications between the client and the load balancers. Thus, the clients are able to access the load balancer using either IPv4 or IPv6 as their individual connectivity needs dictate.

QUESTION 109

A user has setup a CloudWatch alarm on an EC2 action when the CPU utilization is above 75%. The alarm sends a notification to SNS on the alarm state. If the user wants to simulate the alarm action how can he achieve this?

- A. Run activities on the CPU such that its utilization reaches above 75%
- B. From the AWS console change the state to 'Alarm'
- C. The user can set the alarm state to 'Alarm' using CLI
- D. Run the SNS action manually

Correct Answer: C

Explanation:

Amazon CloudWatch alarms watch a single metric over a time period that the user specifies and performs one or more actions based on the value of the metric relative to a given threshold over a number of time periods. The user can test an alarm by setting it to any state using the SetAlarmState API (mon-set-alarm-state command.. This temporary state change lasts only until the next alarm comparison occurs.

QUESTION 110

An organization has added 3 of his AWS accounts to consolidated billing. One of the AWS accounts has purchased a Reserved Instance (RI) of a small instance size in the US-East-1a zone. All other AWS accounts are running instances of a small size in the same zone. What will happen in this case for the RI pricing?

- A. Only the account that has purchased the RI will get the advantage of RI pricing.
- B. One instance of a small size and running in the US-East-1a zone of each AWS account will get the benefit of RI pricing.
- C. Any single instance from all the three accounts can get the benefit of AWS RI pricing if they are running in the same zone and are of the same size.
- D. If there are more than one instances of a small size running across multiple accounts in the same zone no one will get the benefit of RI.

Correct Answer: C

Explanation:

AWS consolidated billing enables the organization to consolidate payments for multiple Amazon Web Services (AWS) accounts within a single organization by making a single paying account. For billing purposes, consolidated billing treats all the accounts on the consolidated bill as one account. This means that all accounts on a consolidated bill can receive the hourly cost benefit of the Amazon EC2 Reserved Instances purchased by any other account. In this case only one Reserved Instance has been purchased by one account. Thus, only a single instance from any of the accounts will get the advantage of RI. AWS will implement the blended rate for each instance if more than one instance is running concurrently.

QUESTION 111

A user is trying to save some cost on the AWS services. Which of the below mentioned options will not help him save cost?

- A. Delete the unutilized EBS volumes once the instance is terminated
- B. Delete the AutoScaling launch configuration after the instances are terminated
- C. Release the elastic IP if not required once the instance is terminated
- D. Delete the AWS ELB after the instances are terminated

Correct Answer: B

Explanation:

AWS bills the user on a pay as you go model. AWS will charge the user once the AWS resource is allocated. Even though the user is not using the resource, AWS will charge if it is in service or allocated. Thus, it is advised that once the user's work is completed he should:

Terminate the EC2 instance Delete the EBS volumes

Release the unutilized Elastic IPs Delete ELB

The AutoScaling launch configuration does not cost the user. Thus, it will not make any difference to the cost whether it is deleted or not.

QUESTION 112

A user has enabled detailed CloudWatch metric monitoring on an Auto Scaling group. Which of the below mentioned metrics will help the user identify the total number of instances in an Auto Scaling group including pending, terminating and running instances?

- A. GroupTotalInstances
- B. GroupSumInstances
- C. It is not possible to get a count of all the three metrics together. The user has to find the individual

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number of running, terminating and pending instances and sum it
D. GroupInstancesCount

Correct Answer: A

Explanation:

CloudWatch is used to monitor AWS as well as the custom services. For Auto Scaling, CloudWatch provides various metrics to get the group information, such as the Number of Pending, Running or Terminating instances at any moment. If the user wants to get the total number of Running, Pending and Terminating instances at any moment, he can use the GroupTotalInstances metric.

QUESTION 113

A user is trying to configure the CloudWatch billing alarm. Which of the below mentioned steps should be performed by the user for the first time alarm creation in the AWS Account Management section?

- A. Enable Receiving Billing Reports
- B. Enable Receiving Billing Alerts
- C. Enable AWS billing utility
- D. Enable CloudWatch Billing Threshold

Correct Answer: B

Explanation:

AWS CloudWatch supports enabling the billing alarm on the total AWS charges. Before the user can create an alarm on the estimated charges, he must enable monitoring of the estimated AWS charges, by selecting the option "Enable receiving billing alerts". It takes about 15 minutes before the user can view the billing data. The user can then create the alarms.

QUESTION 114

A sys admin is trying to understand the Auto Scaling activities. Which of the below mentioned processes is not performed by Auto Scaling?

- A. Reboot Instance
- B. Schedule Actions
- C. Replace Unhealthy
- D. Availability Zone Balancing

Correct Answer: A

Explanation:

There are two primary types of Auto Scaling processes: Launch and Terminate, which launch or terminate instances, respectively. Some other actions performed by Auto Scaling are: AddToLoadbalancer, AlarmNotification, HealthCheck, AZRebalance, ReplaceUnHealthy, and ScheduledActions.

QUESTION 115

A user wants to make so that whenever the CPU utilization of the AWS EC2 instance is above 90%, the redlight of his bedroom turns on. Which of the below mentioned AWS services is helpful for this purpose?

- A. AWS CloudWatch + AWS SES
- B. AWS CloudWatch + AWS SNS
- C. None. It is not possible to configure the light with the AWS infrastructure services
- D. AWS CloudWatch and a dedicated software turning on the light