



## Amazon

### Exam Questions AWS-SysOps

Amazon AWS Certified SysOps Administrator - Associate

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### NEW QUESTION 1

- (Topic 1)

A media company produces new video files on-premises every day with a total size of around 100GBS after compression All files have a size of 1 -2 GB and need to be uploaded to Amazon S3 every night in a fixed time window between 3am and 5am Current upload takes almost 3 hours, although less than half of the available bandwidth is used.

What step(s) would ensure that the file uploads are able to complete in the allotted time window?

- A. Increase your network bandwidth to provide faster throughput to S3
- B. Upload the files in parallel to S3
- C. Pack all files into a single archive, upload it to S3, then extract the files in AWS
- D. Use AWS Import/Export to transfer the video files

**Answer: B**

#### Explanation:

Reference:

<http://aws.amazon.com/importexport/faqs/>

### NEW QUESTION 2

- (Topic 1)

Your EC2-Based Multi-tier application includes a monitoring instance that periodically makes application -level read only requests of various application components and if any of those fail more than three times 30 seconds calls CloudWatch to fire an alarm, and the alarm notifies your operations team by email and SMS of a possible application health problem. However, you also need to watch the watcher -the monitoring instance itself - and be notified if it becomes unhealthy.

Which of the following is a simple way to achieve that goal?

- A. Run another monitoring instance that pings the monitoring instance and fires a CloudWatch alarm that notifies your operations team should the primary monitoring instance become unhealthy
- B. Set a CloudWatch alarm based on EC2 system and instance status checks and have the alarm notify your operations team of any detected problem with the monitoring instance
- C. Set a CloudWatch alarm based on the CPU utilization of the monitoring instance and have the alarm notify your operations team if the CPU usage exceeds 50% for more than one minute: then have your monitoring application go into a CPU-bound loop should it detect any application problem
- D. Have the monitoring instances post messages to an SQS queue and then dequeue those messages on another instance should the queue cease to have new messages, the second instance should first terminate the original monitoring instance start another backup monitoring instance and assume the role of the previous monitoring instance and begin adding messages to the SQS queue

**Answer: D**

### NEW QUESTION 3

- (Topic 1)

When preparing for a compliance assessment of your system built inside of AWS. what are three best-practices for you to prepare for an audit?

Choose 3 answers

- A. Gather evidence of your IT operational controls
- B. Request and obtain applicable third-party audited AWS compliance reports and certifications
- C. Request and obtain a compliance and security tour of an AWS data center for a pre-assessment security review
- D. Request and obtain approval from AWS to perform relevant network scans and in-depth penetration tests of your system's Instances and endpoints
- E. Schedule meetings with AWS's third-party auditors to provide evidence of AWS compliance that maps to your control objectives

**Answer: ABD**

### NEW QUESTION 4

- (Topic 1)

You have a web-style application with a stateless but CPU and memory-intensive web tier running on a cc2 8xlarge EC2 instance inside of a VPC The instance when under load is having problems returning requests within the SLA as defined by your business The application maintains its state in a DynamoDB table, but the data tier is properly provisioned and responses are consistently fast.

How can you best resolve the issue of the application responses not meeting your SLA?

- A. Add another cc2 8xlarge application instance, and put both behind an Elastic Load Balancer
- B. Move the cc2 8xlarge to the same Availability Zone as the DynamoDB table
- C. Cache the database responses in ElastiCache for more rapid access
- D. Move the database from DynamoDB to RDS MySQL in scale-out read-replica configuration

**Answer: B**

#### Explanation:

Reference:

<http://aws.amazon.com/elasticmapreduce/faqs/>

### NEW QUESTION 5

- (Topic 1)

You have a server with a 500GB Amazon EBS data volume. The volume is 80% full. You need to back up the volume at regular intervals and be able to re-create the volume in a new Availability Zone in the shortest time possible. All applications using the volume can be paused for a period of a few minutes with no discernible user impact.

Which of the following backup methods will best fulfill your requirements?

- A. Take periodic snapshots of the EBS volume

- B. Use a third party Incremental backup application to back up to Amazon Glacier
- C. Periodically back up all data to a single compressed archive and archive to Amazon S3 using a parallelized multi-part upload
- D. Create another EBS volume in the second Availability Zone attach it to the Amazon EC2 instance, and use a disk manager to mirror me two disks

**Answer:** D

**Explanation:**

Reference:  
<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-creating-snapshot.html>

**NEW QUESTION 6**

- (Topic 1)

You have set up Individual AWS accounts for each project. You have been asked to make sure your AWS Infrastructure costs do not exceed the budget set per project for each month.

Which of the following approaches can help ensure that you do not exceed the budget each month?

- A. Consolidate your accounts so you have a single bill for all accounts and projects
- B. Set up auto scaling with CloudWatch alarms using SNS to notify you when you are running too many Instances in a given account
- C. Set up CloudWatch billing alerts for all AWS resources used by each project, with a notification occurring when the amount for each resource tagged to a particular project matches the budget allocated to the projec
- D. Set up CloudWatch billing alerts for all AWS resources used by each account, with email notifications when it hits 50%. 80% and 90% of its budgeted monthly spend

**Answer:** C

**NEW QUESTION 7**

- (Topic 1)

You are running a database on an EC2 instance, with the data stored on Elastic Block Store (EBS) for persistence At times throughout the day, you are seeing large variance in the response times of the database queries Looking into the instance with the isolate command you see a lot of wait time on the disk volume that the database's data is stored on.

What two ways can you improve the performance of the database's storage while maintaining the current persistence of the data?

Choose 2 answers

- A. Move to an SSD backed instance
- B. Move the database to an EBS-Optimized Instance
- C. T Use Provisioned IOPs EBS
- D. Use the ephemeral storage on an m2 4xlarge Instance Instead

**Answer:** AB

**NEW QUESTION 8**

- (Topic 1)

When an EC2 EBS-backed (EBS root) instance is stopped, what happens to the data on any ephemeral store volumes?

- A. Data will be deleted and win no longer be accessible
- B. Data is automatically saved in an EBS volum
- C. Data is automatically saved as an EBS snapshot
- D. Data is unavailable until the instance is restarted

**Answer:** D

**NEW QUESTION 9**

- (Topic 1)

The majority of your Infrastructure is on premises and you have a small footprint on AWS Your company has decided to roll out a new application that is heavily dependent on low latency connectivity to LOAP for authentication Your security policy requires minimal changes to the company's existing application user management processes.

What option would you implement to successfully launch this application1?

- A. Create a second, independent LOAP server in AWS for your application to use for authentication
- B. Establish a VPN connection so your applications can authenticate against your existing on-premises LDAP servers
- C. Establish a VPN connection between your data center and AWS create a LDAP replica on AWS and configure your application to use the LDAP replica for authentication
- D. Create a second LDAP domain on AWS establish a VPN connection to establish a trust relationship between your new and existing domains and use the new domain for authentication

**Answer:** D

**Explanation:**

Reference:  
<http://msdn.microsoft.com/en-us/library/azure/jj156090.aspx>

**NEW QUESTION 10**

- (Topic 1)

You are creating an Auto Scaling group whose Instances need to insert a custom metric into CloudWatch.

Which method would be the best way to authenticate your CloudWatch PUT request?

- A. Create an IAM role with the Put MetricData permission and modify the Auto Scaling launch configuration to launch instances in that role
- B. Create an IAM user with the PutMetricData permission and modify the Auto Scaling launch configuration to inject the userscredentials into the instance User

Data

- C. Modify the appropriate Cloud Watch metric policies to allow the Put MetricData permission to instances from the Auto Scaling group
- D. Create an IAM user with the PutMetricData permission and put the credentials in a private repository and have applications on the server pull the credentials as needed

**Answer:** A

#### NEW QUESTION 10

- (Topic 1)

When an EC2 instance that is backed by an S3-based AMI is terminated, what happens to the data on the root volume?

- A. Data is automatically saved as an EBS volume
- B. Data is automatically saved as an EBS snapshot
- C. Data is automatically deleted
- D. Data is unavailable until the instance is restarted

**Answer:** C

#### Explanation:

Reference:

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ComponentsAMIs.html>

#### NEW QUESTION 12

- (Topic 1)

If you want to launch Amazon Elastic Compute Cloud (EC2) instances and assign each instance a predetermined private IP address you should:

- A. Assign a group or sequential Elastic IP address to the instances
- B. Launch the instances in a Placement Group
- C. Launch the instances in the Amazon virtual Private Cloud (VPC).
- D. Use standard EC2 instances since each instance gets a private Domain Name Service (DNS) already
- E. Launch the instance from a private Amazon Machine image (AMI)

**Answer:** C

#### Explanation:

Reference:

<http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/vpc-ip-addressing.html>

#### NEW QUESTION 15

- (Topic 1)

An organization's security policy requires multiple copies of all critical data to be replicated across at least a primary and backup data center. The organization has decided to store some critical data on Amazon S3.

Which option should you implement to ensure this requirement is met?

- A. Use the S3 copy API to replicate data between two S3 buckets in different regions
- B. You do not need to implement anything since S3 data is automatically replicated between regions
- C. Use the S3 copy API to replicate data between two S3 buckets in different facilities within an AWS Region
- D. You do not need to implement anything since S3 data is automatically replicated between multiple facilities within an AWS Region

**Answer:** D

#### NEW QUESTION 18

- (Topic 2)

A user is planning to setup infrastructure on AWS for the Christmas sales. The user is planning to use Auto Scaling based on the schedule for proactive scaling. What advice would you give to the user?

- A. It is good to schedule now because if the user forgets later on it will not scale up
- B. The scaling should be setup only one week before Christmas
- C. Wait till end of November before scheduling the activity
- D. It is not advisable to use scheduled based scaling

**Answer:** C

#### Explanation:

Auto Scaling based on a schedule allows the user to scale the application in response to predictable load changes. The user can specify any date in the future to scale up or down during that period. As per Auto Scaling the user can schedule an action for up to a month in the future. Thus, it is recommended to wait until end of November before scheduling for Christmas.

#### NEW QUESTION 19

- (Topic 2)

A user is trying to connect to a running EC2 instance using SSH. However, the user gets a connection time out error. Which of the below mentioned options is not a possible reason for rejection?

- A. The access key to connect to the instance is wrong
- B. The security group is not configured properly
- C. The private key used to launch the instance is not correct
- D. The instance CPU is heavily loaded

**Answer:** A

**Explanation:**

If the user is trying to connect to a Linux EC2 instance and receives the connection time out error the probable reasons are: Security group is not configured with the SSH port The private key pair is not right The user name to login is wrong The instance CPU is heavily loaded, so it does not allow more connections

#### NEW QUESTION 21

- (Topic 2)

A user wants to disable connection draining on an existing ELB. Which of the below mentioned statements helps the user disable connection draining on the ELB?

- A. The user can only disable connection draining from CLI
- B. It is not possible to disable the connection draining feature once enabled
- C. The user can disable the connection draining feature from EC2 -> ELB console or from CLI
- D. The user needs to stop all instances before disabling connection draining

**Answer:** C

**Explanation:**

The Elastic Load Balancer connection draining feature causes the load balancer to stop sending new requests to the back-end instances when the instances are deregistering or become unhealthy, while ensuring that inflight requests continue to be served. The user can enable or disable connection draining from the AWS EC2 console -> ELB or using CLI.

#### NEW QUESTION 22

- (Topic 2)

A user has created a VPC with CIDR 20.0.0.0/16 using the wizard. The user has created a public subnet CIDR (20.0.0.0/24. and VPN only subnets CIDR (20.0.1.0/24. along with the VPN gateway (vgw-12345. to connect to the user's data centre. Which of the below mentioned options is a valid entry for the main route table in this scenario?

- A. Destination: 20.0.0.0/24 and Target: vgw-12345
- B. Destination: 20.0.0.0/16 and Target: ALL
- C. Destination: 20.0.1.0/16 and Target: vgw-12345
- D. Destination: 0.0.0.0/0 and Target: vgw-12345

**Answer:** D

**Explanation:**

The user can create subnets as per the requirement within a VPC. If the user wants to connect VPC from his own data centre, he can setup a public and VPN only subnet which uses hardware VPN access to connect with his data centre. When the user has configured this setup with Wizard, it will create a virtual private gateway to route all traffic of the VPN subnet. Here are the valid entries for the main route table in this scenario: Destination: 0.0.0.0/0 & Target: vgw-12345 (To route all internet traffic to the VPN gateway. Destination: 20.0.0.0/16 & Target: local (To allow local routing in VPC.

#### NEW QUESTION 26

- (Topic 2)

An organization is generating digital policy files which are required by the admins for verification. Once the files are verified they may not be required in the future unless there is some compliance issue. If the organization wants to save them in a cost effective way, which is the best possible solution?

- A. AWS RRS
- B. AWS S3
- C. AWS RDS
- D. AWS Glacier

**Answer:** D

**Explanation:**

Amazon S3 stores objects according to their storage class. There are three major storage classes: Standard, Reduced Redundancy and Glacier. Standard is for AWS S3 and provides very high durability. However, the costs are a little higher. Reduced redundancy is for less critical files. Glacier is for archival and the files which are accessed infrequently. It is an extremely low-cost storage service that provides secure and durable storage for data archiving and backup.

#### NEW QUESTION 30

- (Topic 2)

A user has developed an application which is required to send the data to a NoSQL database. The user wants to decouple the data sending such that the application keeps processing and sending data but does not wait for an acknowledgement of DB. Which of the below mentioned applications helps in this scenario?

- A. AWS Simple Notification Service
- B. AWS Simple Workflow
- C. AWS Simple Queue Service
- D. AWS Simple Query Service

**Answer:** C

**Explanation:**

Amazon Simple Queue Service (SQS. is a fast, reliable, scalable, and fully managed message queuing service. SQS provides a simple and cost-effective way to

decouple the components of an application. In this case, the user can use AWS SQS to send messages which are received from an application and sent to DB. The application can continue processing data without waiting for any acknowledgement from DB. The user can use SQS to transmit any volume of data without losing messages or requiring other services to always be available.

### NEW QUESTION 33

- (Topic 2)

A user has setup an EBS backed instance and a CloudWatch alarm when the CPU utilization is more than 65%. The user has setup the alarm to watch it for 5 periods of 5 minutes each. The CPU utilization is 60% between 9 AM to 6 PM. The user has stopped the EC2 instance for 15 minutes between 11 AM to 11:15 AM. What will be the status of the alarm at 11:30 AM?

- A. Alarm
- B. OK
- C. Insufficient Data
- D. Error

**Answer: B**

#### Explanation:

Amazon CloudWatch alarm watches a single metric over a time period 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 state of the alarm will be OK for the whole day. When the user stops the instance for three periods the alarm may not receive the data

### NEW QUESTION 35

- (Topic 2)

An organization is planning to create 5 different AWS accounts considering various security requirements. The organization wants to use a single payee account by using the consolidated billing option. Which of the below mentioned statements is true with respect to the above information?

- A. Master (Payee)
- B. account will get only the total bill and cannot see the cost incurred by each account
- C. Master (Payee)
- D. account can view only the AWS billing details of the linked accounts
- E. It is not recommended to use consolidated billing since the payee account will have access to the linked accounts
- F. Each AWS account needs to create an AWS billing policy to provide permission to the payee account

**Answer: B**

#### 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. Consolidated billing enables the organization to see a combined view of the AWS charges incurred by each account as well as obtain a detailed cost report for each of the individual AWS accounts associated with the paying account. The payee account will not have any other access than billing data of linked accounts.

### NEW QUESTION 39

- (Topic 2)

A user has created an ELB with three instances. How many security groups will ELB create by default?

- A. 3
- B. 5
- C. 2
- D. 1

**Answer: C**

#### Explanation:

Elastic Load Balancing provides a special Amazon EC2 source security group that the user can use to ensure that back-end EC2 instances receive traffic only from Elastic Load Balancing. This feature needs two security groups: the source security group and a security group that defines the ingress rules for the back-end instances. To ensure that traffic only flows between the load balancer and the back-end instances, the user can add or modify a rule to the back-end security group which can limit the ingress traffic. Thus, it can come only from the source security group provided by Elastic load Balancing.

### NEW QUESTION 41

- (Topic 2)

A user has launched 10 instances from the same AMI ID using Auto Scaling. The user is trying to see the average CPU utilization across all instances of the last 2 weeks under the CloudWatch console. How can the user achieve this?

- A. View the Auto Scaling CPU metrics
- B. Aggregate the data over the instance AMI ID
- C. The user has to use the CloudWatch analyzer to find the average data across instances
- D. It is not possible to see the average CPU utilization of the same AMI ID since the instance ID is different

**Answer: B**

#### Explanation:

Amazon CloudWatch is basically a metrics repository. Either the user can send the custom data or an AWS product can put metrics into the repository, and the user can retrieve the statistics based on those metrics. The statistics are metric data aggregations over specified periods of time. Aggregations are made using the

namespace, metric name, dimensions, and the data point unit of measure, within the time period that is specified by the user. To aggregate the data across instances launched with AMI, the user should select the AMI ID under EC2 metrics and select the aggregate average to view the data.

#### NEW QUESTION 46

- (Topic 2)

A user has created a queue named "myqueue" in US-East region with AWS SQS. The user's AWS account ID is 123456789012. If the user wants to perform some action on this queue, which of the below Queue URL should he use?

- A. <http://sqs.us-east-1.amazonaws.com/123456789012/myqueue>
- B. <http://sqs.amazonaws.com/123456789012/myqueue>
- C. <http://sq>
- D. [123456789012.us-east-1.amazonaws.com/myqueue](http://123456789012.us-east-1.amazonaws.com/myqueue)
- E. <http://123456789012.sq>
- F. [us-east-1.amazonaws.com/myqueue](http://us-east-1.amazonaws.com/myqueue)

**Answer:** A

#### Explanation:

When creating a new queue in SQS, the user must provide a queue name that is unique within the scope of all queues of user's account. If the user creates queues using both the latest WSDL and a previous version, he will have a single namespace for all his queues. Amazon SQS assigns each queue created by user an identifier called a queue URL, which includes the queue name and other components that Amazon SQS determines. Whenever the user wants to perform an action on a queue, he must provide its queue URL. The queue URL for the account id 123456789012 & queue name "myqueue" in US-East-1 region will be <http://sqs.us-east-1.amazonaws.com/123456789012/myqueue>.

#### NEW QUESTION 47

- (Topic 2)

A user has configured Elastic Load Balancing by enabling a Secure Socket Layer (SSL) negotiation configuration known as a Security Policy. Which of the below mentioned options is not part of this secure policy while negotiating the SSL connection between the user and the client?

- A. SSL Protocols
- B. Client Order Preference
- C. SSL Ciphers
- D. Server Order Preference

**Answer:** B

#### Explanation:

Elastic Load Balancing uses a Secure Socket Layer (SSL) negotiation configuration which is known as a Security Policy. It is used to negotiate the SSL connections between a client and the load balancer. A security policy is a combination of SSL Protocols, SSL Ciphers, and the Server Order Preference option.

#### NEW QUESTION 52

- (Topic 2)

An organization has setup consolidated billing with 3 different AWS accounts. Which of the below mentioned advantages will organization receive in terms of the AWS pricing?

- A. The consolidated billing does not bring any cost advantage for the organization
- B. All AWS accounts will be charged for S3 storage by combining the total storage of each account
- C. The EC2 instances of each account will receive a total of 750\*3 micro instance hours free
- D. The free usage tier for all the 3 accounts will be 3 years and not a single year

**Answer:** B

#### 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, AWS treats all the accounts on the consolidated bill as one account. Some services, such as Amazon EC2 and Amazon S3 have volume pricing tiers across certain usage dimensions that give the user lower prices when he uses the service more.

#### NEW QUESTION 54

- (Topic 2)

A user has configured ELB with three instances. The user wants to achieve High Availability as well as redundancy with ELB. Which of the below mentioned AWS services helps the user achieve this for ELB?

- A. Route 53
- B. AWS Mechanical Turk
- C. Auto Scaling
- D. AWS EMR

**Answer:** A

#### Explanation:

The user can provide high availability and redundancy for applications running behind Elastic Load Balancer by enabling the Amazon Route 53 Domain Name System (DNS) failover for the load balancers. Amazon Route 53 is a DNS service that provides reliable routing to the user's infrastructure.

### NEW QUESTION 58

- (Topic 2)

A user has enabled the Multi AZ feature with the MS SQL RDS database server. Which of the below mentioned statements will help the user understand the Multi AZ feature better?

- A. In a Multi AZ, AWS runs two DBs in parallel and copies the data asynchronously to the replica copy
- B. In a Multi AZ, AWS runs two DBs in parallel and copies the data synchronously to the replica copy
- C. In a Multi AZ, AWS runs just one DB but copies the data synchronously to the standby replica
- D. AWS MS SQL does not support the Multi AZ feature

**Answer: C**

#### 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.

### NEW QUESTION 62

- (Topic 2)

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

**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.

### NEW QUESTION 63

- (Topic 2)

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

**Answer: B**

#### Explanation:

AWS bills the user on a as 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.

### NEW QUESTION 68

- (Topic 2)

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

**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.

### NEW QUESTION 70

- (Topic 2)

A user has launched an EBS backed EC2 instance. The user has rebooted the instance. Which of the below mentioned statements is not true with respect to the

reboot action?

- A. The private and public address remains the same
- B. The Elastic IP remains associated with the instance
- C. The volume is preserved
- D. The instance runs on a new host computer

**Answer: D**

**Explanation:**

A user can reboot an EC2 instance using the AWS console, the Amazon EC2 CLI or the Amazon EC2 API. Rebooting an instance is equivalent to rebooting an operating system. However, it is recommended that the user use the Amazon EC2 to reboot the instance instead of running the operating system reboot command from the instance. The instance remains on the same host computer and maintains its public DNS name, private IP address, and any data on its instance store volumes. It typically takes a few minutes for the reboot to complete, but the time it takes to reboot depends on the instance configuration.

#### NEW QUESTION 72

- (Topic 2)

A user has configured the Auto Scaling group with the minimum capacity as 3 and the maximum capacity as 5. When the user configures the AS group, how many instances will Auto Scaling launch?

- A. 3
- B. 0
- C. 5
- D. 2

**Answer: C**

#### NEW QUESTION 77

- (Topic 2)

A user has configured CloudWatch monitoring on an EBS backed EC2 instance. If the user has not attached any additional device, which of the below mentioned metrics will always show a 0 value?

- A. DiskReadBytes
- B. NetworkIn
- C. NetworkOut
- D. CPUUtilization

**Answer: A**

**Explanation:**

CloudWatch is used to monitor AWS as well as custom services. For EC2 when the user is monitoring the EC2 instances, it will capture the 7 Instance level and 3 system check parameters for the EC2 instance. Since this is an EBS backed instance, it will not have ephemeral storage attached to it. Out of the 7 EC2 metrics, the 4 metrics DiskReadOps, DiskWriteOps, DiskReadBytes and DiskWriteBytes are disk related data and available only when there is ephemeral storage attached to an instance. For an EBS backed instance without any additional device, this data will be 0.

#### NEW QUESTION 80

- (Topic 2)

A user has configured an Auto Scaling group with ELB. The user has enabled detailed CloudWatch monitoring on Elastic Load balancing. Which of the below mentioned statements will help the user understand this functionality better?

- A. ELB sends data to CloudWatch every minute only and does not charge the user
- B. ELB will send data every minute and will charge the user extra
- C. ELB is not supported by CloudWatch
- D. It is not possible to setup detailed monitoring for ELB

**Answer: A**

**Explanation:**

CloudWatch is used to monitor AWS as well as the custom services. It provides either basic or detailed monitoring for the supported AWS products. In basic monitoring, a service sends data points to CloudWatch every five minutes, while in detailed monitoring a service sends data points to CloudWatch every minute. Elastic Load Balancing includes 10 metrics and 2 dimensions, and sends data to CloudWatch every minute. This does not cost extra.

#### NEW QUESTION 81

- (Topic 2)

A user has setup Auto Scaling with ELB on the EC2 instances. The user wants to configure that whenever the CPU utilization is below 10%, Auto Scaling should remove one instance. How can the user configure this?

- A. The user can get an email using SNS when the CPU utilization is less than 10%. The user can use the desired capacity of Auto Scaling to remove the instance
- B. Use CloudWatch to monitor the data and Auto Scaling to remove the instances using scheduled actions
- C. Configure CloudWatch to send a notification to Auto Scaling Launch configuration when the CPU utilization is less than 10% and configure the Auto Scaling policy to remove the instance
- D. Configure CloudWatch to send a notification to the Auto Scaling group when the CPU Utilization is less than 10% and configure the Auto Scaling policy to remove the instance

**Answer: D**

**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 setup to receive a notification on the Auto Scaling group with the CloudWatch alarm when the CPU utilization is below a certain threshold. The user can configure the Auto Scaling policy to take action for removing the instance. When the CPU utilization is below 10% CloudWatch will send an alarm to the Auto Scaling group to execute the policy.

**NEW QUESTION 85**

- (Topic 2)

A user is launching an instance. He is on the "Tag the instance" screen. Which of the below mentioned information will not help the user understand the functionality of an AWS tag?

- A. Each tag will have a key and value
- B. The user can apply tags to the S3 bucket
- C. The maximum value of the tag key length is 64 unicode characters
- D. AWS tags are used to find the cost distribution of various resources

**Answer: C**

**Explanation:**

AWS provides cost allocation tags to categorize and track the AWS costs. When the user applies tags to his AWS resources, AWS generates a cost allocation report as a comma-separated value (CSV file) with the usage and costs aggregated by those tags. Each tag will have a key-value and can be applied to services, such as EC2, S3, RDS, EMR, etc. The maximum size of a tag key is 128 unicode characters.

**NEW QUESTION 90**

- (Topic 2)

An organization wants to move to Cloud. They are looking for a secure encrypted database storage option. Which of the below mentioned AWS functionalities helps them to achieve this?

- A. AWS MFA with EBS
- B. AWS EBS encryption
- C. Multi-tier encryption with Redshift
- D. AWS S3 server side storage

**Answer: B**

**Explanation:**

AWS EBS supports encryption of the volume while creating new volumes. It also supports creating volumes from existing snapshots provided the snapshots are created from encrypted volumes. The data at rest, the I/O as well as all the snapshots of EBS will be encrypted. The encryption occurs on the servers that host the EC2 instances, providing encryption of data as it moves between the EC2 instances and EBS storage. EBS encryption is based on the AES-256 cryptographic algorithm, which is the industry standard

**NEW QUESTION 94**

- (Topic 2)

You are building an online store on AWS that uses SQS to process your customer orders. Your backend system needs those messages in the same sequence the customer orders have been put in. How can you achieve that?

- A. It is not possible to do this with SQS
- B. You can use sequencing information on each message
- C. You can do this with SQS but you also need to use SWF
- D. Messages will arrive in the same order by default

**Answer: B**

**Explanation:**

Amazon SQS is engineered to always be available and deliver messages. One of the resulting tradeoffs is that SQS does not guarantee first in, first out delivery of messages. For many distributed applications, each message can stand on its own, and as long as all messages are delivered, the order is not important. If your system requires that order be preserved, you can place sequencing information in each message, so that you can reorder the messages when the queue returns them.

**NEW QUESTION 97**

- (Topic 2)

A system admin is planning to setup event notifications on RDS. Which of the below mentioned services will help the admin setup notifications?

- A. AWS SES
- B. AWS Cloudtrail
- C. AWS Cloudwatch
- D. AWS SNS

**Answer: D**

**Explanation:**

Amazon RDS uses the Amazon Simple Notification Service to provide a notification when an Amazon RDS event occurs. These notifications can be in any notification form supported by Amazon SNS for an AWS region, such as an email, a text message or a call to an HTTP endpoint

#### NEW QUESTION 101

- (Topic 2)

A user has launched two EBS backed EC2 instances in the US-East-1a region. The user wants to change the zone of one of the instances. How can the user change it?

- A. Stop one of the instances and change the availability zone
- B. The zone can only be modified using the AWS CLI
- C. From the AWS EC2 console, select the Actions - > Change zones and specify new zone
- D. Create an AMI of the running instance and launch the instance in a separate AZ

**Answer: D**

#### Explanation:

With AWS EC2, when a user is launching an instance he can select the availability zone (AZ) at the time of launch. If the zone is not selected, AWS selects it on behalf of the user. Once the instance is launched, the user cannot change the zone of that instance unless he creates an AMI of that instance and launches a new instance from it.

#### NEW QUESTION 106

- (Topic 2)

A sys admin is trying to understand EBS snapshots. Which of the below mentioned statements will not be useful to the admin to understand the concepts about a snapshot?

- A. The snapshot is synchronous
- B. It is recommended to stop the instance before taking a snapshot for consistent data
- C. The snapshot is incremental
- D. The snapshot captures the data that has been written to the hard disk when the snapshot command was executed

**Answer: A**

#### Explanation:

The AWS snapshot is a point in time backup of an EBS volume. When the snapshot command is executed it will capture the current state of the data that is written on the drive and take a backup. For a better and consistent snapshot of the root EBS volume, AWS recommends stopping the instance. For additional volumes it is recommended to unmount the device. The snapshots are asynchronous and incremental.

#### NEW QUESTION 110

- (Topic 2)

A user has launched an EBS backed EC2 instance. What will be the difference while performing the restart or stop/start options on that instance?

- A. For restart it does not charge for an extra hour, while every stop/start it will be charged as a separate hour
- B. Every restart is charged by AWS as a separate hour, while multiple start/stop actions during a single hour will be counted as a single hour
- C. For every restart or start/stop it will be charged as a separate hour
- D. For restart it charges extra only once, while for every stop/start it will be charged as a separate hour

**Answer: A**

#### Explanation:

For an EC2 instance launched with an EBS backed AMI, each time the instance state is changed from stop to start/ running, AWS charges a full instance hour, even if these transitions happen multiple times within a single hour. Anyway, rebooting an instance AWS does not charge a new instance billing hour.

#### NEW QUESTION 113

- (Topic 3)

A user has configured ELB with Auto Scaling. The user suspended the Auto Scaling terminate process only for a while. What will happen to the availability zone rebalancing process (AZRebalance) during this period?

- A. Auto Scaling will not launch or terminate any instances
- B. Auto Scaling will allow the instances to grow more than the maximum size
- C. Auto Scaling will keep launching instances till the maximum instance size
- D. It is not possible to suspend the terminate process while keeping the launch active

**Answer: B**

#### Explanation:

Auto Scaling performs various processes, such as Launch, Terminate, Availability Zone Rebalance (AZRebalance) etc. The AZRebalance process type seeks to maintain a balanced number of instances across Availability Zones within a region. If the user suspends the Terminate process, the AZRebalance process can cause the Auto Scaling group to grow up to ten percent larger than the maximum size. This is because Auto Scaling allows groups to temporarily grow larger than the maximum size during rebalancing activities. If Auto Scaling cannot terminate instances, the Auto Scaling group could remain up to ten percent larger than the maximum size until the user resumes the Terminate process type.

#### NEW QUESTION 115

- (Topic 3)

A user has created a VPC with CIDR 20.0.0.0/24. The user has used all the IPs of CIDR and wants to increase the size of the VPC. The user has two subnets: public (20.0.0.0/28) and private (20.0.1.0/28). How can the user change the size of the VPC?

- A. The user can delete all the instances of the subne
- B. Change the size of the subnets to 20.0.0.0/32 and 20.0.1.0/32, respectivel

- C. Then the user can increase the size of the VPC using CLI
- D. It is not possible to change the size of the VPC once it has been created
- E. The user can add a subnet with a higher range so that it will automatically increase the size of the VPC
- F. The user can delete the subnets first and then modify the size of the VPC

**Answer:** B

**Explanation:**

Once the user has created a VPC, he cannot change the CIDR of that VPC. The user has to terminate all the instances, delete the subnets and then delete the VPC. Create a new VPC with a higher size and launch instances with the newly created VPC and subnets.

**NEW QUESTION 118**

- (Topic 3)

A user is sending the data to CloudWatch using the CloudWatch API. The user is sending data 90 minutes in the future. What will CloudWatch do in this case?

- A. CloudWatch will accept the data
- B. It is not possible to send data of the future
- C. It is not possible to send the data manually to CloudWatch
- D. The user cannot send data for more than 60 minutes in the future

**Answer:** A

**Explanation:**

With Amazon CloudWatch, each metric data point must be marked with a time stamp. The user can send the data using CLI but the time has to be in the UTC format. If the user does not provide the time, CloudWatch will take the data received time in the UTC timezone. The time stamp sent by the user can be up to two weeks in the past and up to two hours into the future.

**NEW QUESTION 121**

- (Topic 3)

A user has created a subnet in VPC and launched an EC2 instance within it. The user has not selected the option to assign the IP address while launching the instance. Which of the below mentioned statements is true with respect to this scenario?

- A. The instance will always have a public DNS attached to the instance by default
- B. The user can directly attach an elastic IP to the instance
- C. The instance will never launch if the public IP is not assigned
- D. The user would need to create an internet gateway and then attach an elastic IP to the instance to connect from internet

**Answer:** D

**Explanation:**

A Virtual Private Cloud (VPC) is a virtual network dedicated to the user's AWS account. A user can create a subnet with VPC and launch instances inside that subnet. When the user is launching an instance he needs to select an option which attaches a public IP to the instance. If the user has not selected the option to attach the public IP then it will only have a private IP when launched. The user cannot connect to the instance from the internet. If the user wants an elastic IP to connect to the instance from the internet he should create an internet gateway and assign an elastic IP to instance.

**NEW QUESTION 125**

- (Topic 3)

Which of the following statements about this S3 bucket policy is true?

```
{
  "Id": "IPAllowPolicy",
  "Statement": [
    {
      "Sid": "IPAllow",
      "Action": "s3:*",
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::mybucket/*",
      "Condition": {
        "IpAddress": {
          "aws:SourceIp": "192.168.100.0/24"
        },
        "NotIpAddress": {
          "aws:SourceIp": "192.168.100.188/32"
        }
      }
    }
  ],
  "Principal": {
    "AWS": [
      "*"
    ]
  }
}
```

- A. Denies the server with the IP address 192.166 100.0 full access to the "mybucket" bucket
- B. Denies the server with the IP address 192.166 100.188 full access to the "mybucket" bucket
- C. Grants all the servers within the 192 168 100 0/24 subnet full access to the "mybucket" bucket
- D. Grants all the servers within the 192 168 100 188/32 subnet full access to the "mybucket" bucket

**Answer:** C

#### NEW QUESTION 126

- (Topic 3)

You have a business-to-business web application running in a VPC consisting of an Elastic Load Balancer (ELB), web servers, application servers and a database. Your web application should only accept traffic from pre-defined customer IP addresses.

Which two options meet this security requirement? Choose 2 answers A. Configure web server VPC security groups to allow traffic from your customers' IPs

- A. Configure your web servers to filter traffic based on the ELB's "X-forwarded-for" header
- B. Configure ELB security groups to allow traffic from your customers' IPs and deny all outbound traffic
- C. Configure a VPC NACL to allow web traffic from your customers' IPs and deny all outbound traffic

**Answer:** AB

#### NEW QUESTION 129

- (Topic 3)

Your mission is to create a lights-out datacenter environment, and you plan to use AWS OpsWorks to accomplish this. First you created a stack and added an App Server layer with an instance running in it. Next you added an application to the instance, and now you need to deploy a MySQL RDS database instance.

Which of the following answers accurately describe how to add a backend database server to an OpsWorks stack? Choose 3 answers

- A. Add a new database layer and then add recipes to the deploy actions of the database and App Server layer
- B. Use OpsWorks' "Clone Stack" feature to create a second RDS stack in another Availability Zone for redundancy in the event of a failure in the Primary A
- C. To switch to the secondary RDS instance, set the [:database] attributes to values that are appropriate for your server which you can do by using custom JSO
- D. The variables that characterize the RDS database connection—host, user, and so on—are set using the corresponding values from the deploy JSON's [:deploy][:app\_name][:database] attribute
- E. Cookbook attributes are stored in a repository, so OpsWorks requires that the "password": "your\_password" attribute for the RDS instance must be encrypted using at least a 256-bit ke
- F. Set up the connection between the app server and the RDS layer by using a custom recip
- G. The recipe configures the app server as required, typically by creating a configuration fil
- H. The recipe gets the connection data such as the host and database name from a set of attributes in the stack configuration and deployment JSON that AWS OpsWorks installs on every instanc

**Answer:** BCE

#### NEW QUESTION 130

- (Topic 3)

A user has launched an RDS MySQL DB with the Multi AZ feature. The user has scheduled the scaling of instance storage during maintenance window. What is the correct order of events during maintenance window?

- 1. Perform maintenance on standby
- 2. Promote standby to primary
- 3. Perform maintenance on original primary
- 4. Promote original master back as primary

- A. 1, 2, 3, 4
- B. 1, 2, 3
- C. 2, 3, 1, 4

**Answer:** B

#### Explanation:

Running MySQL on the RDS DB instance as a Multi-AZ deployment can help the user reduce the impact of a maintenance event, as the Amazon will conduct maintenance by following the steps in the below mentioned order: Perform maintenance on standby Promote standby to primary Perform maintenance on original primary, which becomes the new standby.

#### NEW QUESTION 131

- (Topic 3)

A user has created a VPC with public and private subnets using the VPC wizard. Which of the below mentioned statements is true in this scenario?

- A. The AWS VPC will automatically create a NAT instance with the micro size
- B. VPC bounds the main route table with a private subnet and a custom route table with a public subnet
- C. The user has to manually create a NAT instance
- D. VPC bounds the main route table with a public subnet and a custom route table with a private subnet

**Answer:** B

#### Explanation:

A Virtual Private Cloud (VPC) is a virtual network dedicated to the user's AWS account. A user can create a subnet with VPC and launch instances inside that subnet. If the user has created a public private subnet, the instances in the public subnet can receive inbound traffic directly from the internet, whereas the instances in the private subnet cannot. If these subnets are created with Wizard, AWS will create a NAT instance of a smaller or higher size, respectively. The VPC has an implied router and the VPC wizard updates the main route table used with the private subnet, creates a custom route table and associates it with the public subnet.

#### NEW QUESTION 135

- (Topic 3)

A user has setup a CloudWatch alarm on the EC2 instance for CPU utilization. The user has setup to receive a notification on email when the CPU utilization is higher than 60%. The user is running a virus scan on the same instance at a particular time. The user wants to avoid receiving an email at this time. What should the user do?

- A. Remove the alarm
- B. Disable the alarm for a while using CLI
- C. Modify the CPU utilization by removing the email alert
- D. Disable the alarm for a while using the console

**Answer:** B

#### Explanation:

Amazon CloudWatch alarm watches 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. When the user has setup an alarm and it is known that for some unavoidable event the status may change to Alarm, the user can disable the alarm using the DisableAlarmActions API or from the command line `mon-disable-alarm-actions`.

#### NEW QUESTION 136

- (Topic 3)

In AWS, which security aspects are the customer's responsibility? Choose 4 answers

- A. Controlling physical access to compute resources
- B. Patch management on the EC2 instance's operating system
- C. Encryption of EBS (Elastic Block Storage) volumes
- D. Life-cycle management of IAM credentials
- E. Decommissioning storage devices
- F. Security Group and ACL (Access Control List) settings

**Answer:** BCEF

#### NEW QUESTION 139

- (Topic 3)

A user is using the AWS SQS to decouple the services. Which of the below mentioned operations is not supported by SQS?

- A. SendMessageBatch
- B. DeleteMessageBatch
- C. CreateQueue
- D. DeleteMessageQueue

**Answer:** D

#### Explanation:

Amazon Simple Queue Service (SQS) is a fast, reliable, scalable, and fully managed message queuing service. SQS provides a simple and cost-effective way to decouple the components of an application. The user can perform the following set of operations using the Amazon SQS: CreateQueue, ListQueues, DeleteQueue, SendMessage, SendMessageBatch, ReceiveMessage, DeleteMessage, DeleteMessageBatch, ChangeMessageVisibility, ChangeMessageVisibilityBatch, SetQueueAttributes, GetQueueAttributes, GetQueueUrl, AddPermission and RemovePermission. Operations can be performed only by the AWS account owner or an AWS account that the account owner has delegated to.

#### NEW QUESTION 144

- (Topic 3)

A user has created a VPC with the public and private subnets using the VPC wizard. The VPC has CIDR 20.0.0.0/16. The public subnet uses CIDR 20.0.1.0/24. The user is planning to host a web server in the public subnet (port 80) and a DB server in the private subnet (port 3306). The user is configuring a security group for the public subnet (WebSecGrp) and the private subnet (DBSecGrp). Which of the below mentioned entries is required in the private subnet database security group (DBSecGrp)?

- A. Allow Inbound on port 3306 for Source Web Server Security Group (WebSecGr)
- B. Allow Inbound on port 3306 from source 20.0.0.0/16
- C. Allow Outbound on port 3306 for Destination Web Server Security Group (WebSecGr)
- D. Allow Outbound on port 80 for Destination NAT Instance IP

**Answer:** A

#### Explanation:

A user can create a subnet with VPC and launch instances inside that subnet. If the user has created a public private subnet to host the web server and DB server respectively, the user should configure that the instances in the private subnet can receive inbound traffic from the public subnet on the DB port. Thus, configure port 3306 in Inbound with the source as the Web Server Security Group (WebSecGrp). The user should configure ports 80 and 443 for Destination 0.0.0.0/0 as the route table directs traffic to the NAT instance from the private subnet.

#### NEW QUESTION 147

- (Topic 3)

A user is having data generated randomly based on a certain event. The user wants to upload that data to CloudWatch. It may happen that event may not have

data generated for some period due to andomness. Which of the below mentioned options is a recommended option for this case?

- A. For the period when there is no data, the user should not send the data at all
- B. For the period when there is no data the user should send a blank value
- C. For the period when there is no data the user should send the value as 0
- D. The user must upload the data to CloudWatch as having no data for some period will cause an error at CloudWatch monitoring

**Answer:** C

**Explanation:**

AWS CloudWatch supports the custom metrics. The user can always capture the custom data and upload the data to CloudWatch using CLI or APIs. When the user data is more random and not generated at regular intervals, there can be a period which has no associated data. The user can either publish the zero (0) Value for that period or not publish the data at all. It is recommended that the user should publish zero instead of no value to monitor the health of the application. This is helpful in an alarm as well as in the generation of the sample data count.

#### NEW QUESTION 148

- (Topic 3)

A user wants to upload a complete folder to AWS S3 using the S3 Management console. How can the user perform this activity?

- A. Just drag and drop the folder using the flash tool provided by S3
- B. Use the Enable Enhanced Folder option from the S3 console while uploading objects
- C. The user cannot upload the whole folder in one go with the S3 management console
- D. Use the Enable Enhanced Uploader option from the S3 console while uploading objects

**Answer:** D

**Explanation:**

AWS S3 provides a console to upload objects to a bucket. The user can use the file upload screen to upload the whole folder in one go by clicking on the Enable Enhanced Uploader option. When the user uploads a folder, Amazon S3 uploads all the files and subfolders from the specified folder to the user's bucket. It then assigns a key value that is a combination of the uploaded file name and the folder name.

#### NEW QUESTION 152

- (Topic 3)

Which services allow the customer to retain run administrative privileges on the underlying EC2 instances? Choose 2 answers

- A. AWS Elastic Beanstalk
- B. Amazon Elastic Map Reduce
- C. Elastic Load Balancing
- D. Amazon Relational Database Service
- E. Amazon Elasti Cache

**Answer:** AB

#### NEW QUESTION 154

- (Topic 3)

A user has configured Auto Scaling with 3 instances. The user had created a new AMI after updating one of the instances. If the user wants to terminate two specific instances to ensure that Auto Scaling launches an instances with the new launch configuration, which command should he run?

- A. `as-delete-instance-in-auto-scaling-group <Instance ID> --no-decrement-desired-capacity`
- B. `as-terminate-instance-in-auto-scaling-group <Instance ID> --update-desired-capacity`
- C. `as-terminate-instance-in-auto-scaling-group <Instance ID> --decrement-desired-capacity`
- D. `as-terminate-instance-in-auto-scaling-group <Instance ID> --no-decrement-desired-capacity`

**Answer:** D

**Explanation:**

The Auto Scaling command `as-terminate-instance-in-auto-scaling-group <Instance ID>` will terminate the specific instance ID. The user is required to specify the parameter `--no-decrement-desired-capacity` to ensure that it launches a new instance from the launch config after terminating the instance. If the user specifies the parameter `--decrement-desired-capacity` then Auto Scaling will terminate the instance and decrease the desired capacity by 1.

#### NEW QUESTION 159

- (Topic 3)

A user is configuring a CloudWatch alarm on RDS to receive a notification when the CPU utilization of RDS is higher than 50%. The user has setup an alarm when there is some inactivity on RDS, such as RDS unavailability. How can the user configure this?

- A. Setup the notification when the CPU is more than 75% on RDS
- B. Setup the notification when the state is Insufficient Data
- C. Setup the notification when the CPU utilization is less than 10%
- D. It is not possible to setup the alarm on RDS

**Answer:** B

**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 alarm has three states: Alarm, OK and Insufficient data. The Alarm will change to Insufficient Data

when any of the three situations arise: when the alarm has just started, when the metric is not available or when enough data is not available for the metric to determine the alarm state. If the user wants to find that RDS is not available, he can setup to receive the notification when the state is in Insufficient data.

#### NEW QUESTION 163

- (Topic 3)

A user is trying to setup a security policy for ELB. The user wants ELB to meet the cipher supported by the client by configuring the server order preference in ELB security policy. Which of the below mentioned preconfigured policies supports this feature?

- A. ELBSecurity Policy-2014-01
- B. ELBSecurity Policy-2011-08
- C. ELBDefault Negotiation Policy
- D. ELBSample- OpenSSLDefault Cipher Policy

**Answer:** A

#### Explanation:

Elastic Load Balancing uses a Secure Socket Layer (SSL) negotiation configuration which is known as a Security Policy. It is used to negotiate the SSL connections between a client and the load balancer. If the load balancer is configured to support the Server Order Preference, then the load balancer gets to select the first cipher in its list that matches any one of the ciphers in the client's list. When the user verifies the preconfigured policies supported by ELB, the policy "ELBSecurity Policy-2014-01" supports server order preference.

#### NEW QUESTION 168

- (Topic 3)

A user has launched an EBS backed EC2 instance in the US-East-1a region. The user stopped the instance and started it back after 20 days. AWS throws up an 'InsufficientInstanceCapacity' error. What can be the possible reason for this?

- A. AWS does not have sufficient capacity in that availability zone
- B. AWS zone mapping is changed for that user account
- C. There is some issue with the host capacity on which the instance is launched
- D. The user account has reached the maximum EC2 instance limit

**Answer:** A

#### Explanation:

When the user gets an 'InsufficientInstanceCapacity' error while launching or starting an EC2 instance, it means that AWS does not currently have enough available capacity to service the user request. If the user is requesting a large number of instances, there might not be enough server capacity to host them. The user can either try again later, by specifying a smaller number of instances or changing the availability zone if launching a fresh instance.

#### NEW QUESTION 173

- (Topic 3)

A user is planning to use AWS services for his web application. If the user is trying to set up his own billing management system for AWS, how can he configure it?

- A. Set up programmatic billing access
- B. Download and parse the bill as per the requirement
- C. It is not possible for the user to create his own billing management service with AWS
- D. Enable the AWS CloudWatch alarm which will provide APIs to download the alarm data
- E. Use AWS billing APIs to download the usage report of each service from the AWS billing console

**Answer:** A

#### 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. AWS will upload the bill to the bucket every few hours and the user can download the bill CSV from the bucket, parse it and create a billing system as per the requirement.

#### NEW QUESTION 177

- (Topic 3)

You run a web application with the following components Elastic Load Balancer (ELB), 3 Web/Application servers, 1 MySQL RDS database with read replicas, and Amazon Simple Storage Service (Amazon S3) for static content. Average response time for users is increasing slowly. What three CloudWatch RDS metrics will allow you to identify if the database is the bottleneck? Choose 3 answers

- A. The number of outstanding IOs waiting to access the disk
- B. The amount of write latency
- C. The amount of disk space occupied by binary logs on the master
- D. The amount of time a Read Replica DB Instance lags behind the source DB Instance
- E. The average number of disk I/O operations per second

**Answer:** ABD

#### NEW QUESTION 179

- (Topic 3)

A sys admin has enabled a log on ELB. Which of the below mentioned activities are not captured by the log?

- A. Response processing time
- B. Front end processing time
- C. Backend processing time
- D. Request processing time

**Answer:** B

**Explanation:**

Elastic Load Balancing access logs capture detailed information for all the requests made to the load balancer. Each request will have details, such as client IP, request path, ELB IP, time, and latencies. The time will have information, such as Request Processing time, Backend Processing time and Response Processing time.

**NEW QUESTION 181**

- (Topic 3)

A user is creating a Cloudformation stack. Which of the below mentioned limitations does not hold true for Cloudformation?

- A. One account by default is limited to 100 templates
- B. The user can use 60 parameters and 60 outputs in a single template
- C. The template, parameter, output, and resource description fields are limited to 4096 characters
- D. One account by default is limited to 20 stacks

**Answer:** A

**Explanation:**

AWS Cloudformation is an application management tool which provides application modelling, deployment, configuration, management and related activities. The limitations given below apply to the Cloudformation template and stack. There are no limits to the number of templates but each AWS CloudFormation account is limited to a maximum of 20 stacks by default. The Template, Parameter, Output, and Resource description fields are limited to 4096 characters. The user can include up to 60 parameters and 60 outputs in a template.

**NEW QUESTION 185**

- (Topic 3)

A user has launched an EC2 instance from an instance store backed AMI. If the user restarts the instance, what will happen to the ephemeral storage data?

- A. All the data will be erased but the ephemeral storage will stay connected
- B. All data will be erased and the ephemeral storage is released
- C. It is not possible to restart an instance launched from an instance store backed AMI
- D. The data is preserved

**Answer:** D

**Explanation:**

A user can reboot an EC2 instance using the AWS console, the Amazon EC2 CLI or the Amazon EC2 API. Rebooting an instance is equivalent to rebooting an operating system. However, it is recommended that the user use Amazon EC2 to reboot the instance instead of running the operating system reboot command from the instance. When an instance launched from an instance store backed AMI is rebooted all the ephemeral storage data is still preserved.

**NEW QUESTION 187**

- (Topic 3)

A user has configured Auto Scaling with the minimum capacity as 2 and the desired capacity as 2. The user is trying to terminate one of the existing instance with the command:

```
as-terminate-instance-in-auto-scaling-group<Instance ID> --decrement-desired-capacity
```

What will Auto Scaling do in this scenario?

- A. Terminates the instance and does not launch a new instance
- B. Terminates the instance and updates the desired capacity to 1
- C. Terminates the instance and updates the desired capacity and minimum size to 1
- D. Throws an error

**Answer:** D

**Explanation:**

The Auto Scaling command `as-terminate-instance-in-auto-scaling-group <Instance ID>` will terminate the specific instance ID. The user is required to specify the parameter `--decrement-desired-capacity`. Then Auto Scaling will terminate the instance and decrease the desired capacity by 1. In this case since the minimum size is 2, Auto Scaling will not allow the desired capacity to go below 2. Thus, it will throw an error.

**NEW QUESTION 192**

- (Topic 3)

How can you secure data at rest on an EBS volume?

- A. Encrypt the volume using the S3 server-side encryption service
- B. Attach the volume to an instance using EC2's SSL interface
- C. Create an IAM policy that restricts read and write access to the volume
- D. Write the data randomly instead of sequentially
- E. Use an encrypted file system on top of the EBS volume

**Answer:** C

**Explanation:**

Reference:  
[http://docs.aws.amazon.com/IAM/latest/UserGuide/policies\\_examples.html](http://docs.aws.amazon.com/IAM/latest/UserGuide/policies_examples.html)

#### NEW QUESTION 195

- (Topic 3)

A user is trying to understand the detailed CloudWatch monitoring concept. Which of the below mentioned services provides detailed monitoring with CloudWatch without charging the user extra?

- A. AWS Auto Scaling
- B. AWS Route 53
- C. AWS EMR
- D. AWS SNS

**Answer:** B

**Explanation:**

CloudWatch is used to monitor AWS as well as the custom services. It provides either basic or detailed monitoring for the supported AWS products. In basic monitoring, a service sends data points to CloudWatch every five minutes, while in detailed monitoring a service sends data points to CloudWatch every minute. Services, such as RDS, ELB, OpsWorks, and Route 53 can provide the monitoring data every minute without charging the user.

#### NEW QUESTION 199

- (Topic 3)

You have private video content in S3 that you want to serve to subscribed users on the Internet. User IDs, credentials, and subscriptions are stored in an Amazon RDS database.

Which configuration will allow you to securely serve private content to your users?

- A. Generate pre-signed URLs for each user as they request access to protected S3 content
- B. Create an IAM user for each subscribed user and assign the GetObject permission to each IAM user
- C. Create an S3 bucket policy that limits access to your private content to only your subscribed users' credentials
- D. Create a CloudFront Origin Identity user for your subscribed users and assign the GetObject permission to this user

**Answer:** C

**Explanation:**

Reference:  
<https://java.awsblog.com/post/Tx1VE22EWFR4H86/Accessing-Private-Content-in-Amazon-CloudFront>

#### NEW QUESTION 204

- (Topic 3)

A user has a weighing plant. The user measures the weight of some goods every 5 minutes and sends data to AWS CloudWatch for monitoring and tracking. Which of the below mentioned parameters is mandatory for the user to include in the request list?

- A. Value
- B. Namespace
- C. Metric Name
- D. Timezone

**Answer:** B

**Explanation:**

AWS CloudWatch supports the custom metrics. The user can always capture the custom data and upload the data to CloudWatch using CLI or APIs. The user can publish the data to CloudWatch as single data points or as an aggregated set of data points called a statistic set. The user has to always include the namespace as part of the request. The user can supply a file instead of the metric name. If the user does not supply the timezone, it accepts the current time. If the user is sending the data as a single data point it will have parameters, such as value. However, if the user is sending as an aggregate it will have parameters, such as statistic-values.

#### NEW QUESTION 208

- (Topic 3)

Amazon EBS snapshots have which of the following two characteristics? (Choose 2.) Choose 2 answers

- A. EBS snapshots only save incremental changes from snapshot to snapshot
- B. EBS snapshots can be created in real-time without stopping an EC2 instance
- C. EBS snapshots can only be restored to an EBS volume of the same size or smaller
- D. EBS snapshots can only be restored and mounted to an instance in the same Availability Zone as the original EBS volume

**Answer:** AD

#### NEW QUESTION 211

- (Topic 3)

A user has moved an object to Glacier using the life cycle rules. The user requests to restore the archive after 6 months. When the restore request is completed the user accesses that archive. Which of the below mentioned statements is not true in this condition?

- A. The archive will be available as an object for the duration specified by the user during the restoration request
- B. The restored object's storage class will be RRS
- C. The user can modify the restoration period only by issuing a new restore request with the updated period
- D. The user needs to pay storage for both RRS (restore and Glacier (Archiv
- E. Rates

**Answer: B**

**Explanation:**

AWS Glacier is an archival service offered by AWS. AWS S3 provides lifecycle rules to archive and restore objects from S3 to Glacier. Once the object is archived their storage class will change to Glacier. If the user sends a request for restore, the storage class will still be Glacier for the restored object. The user will be paying for both the archived copy as well as for the restored object. The object is available only for the duration specified in the restore request and if the user wants to modify that period, he has to raise another restore request with the updated duration.

**NEW QUESTION 215**

- (Topic 3)

A user has created a subnet in VPC and launched an EC2 instance within it. The user has not selected the option to assign the IP address while launching the instance. The user has 3 elastic IPs and is trying to assign one of the Elastic IPs to the VPC instance from the console. The console does not show any instance in the IP assignment screen. What is a possible reason that the instance is unavailable in the assigned IP console?

- A. The IP address may be attached to one of the instances
- B. The IP address belongs to a different zone than the subnet zone
- C. The user has not created an internet gateway
- D. The IP addresses belong to EC2 Classic; so they cannot be assigned to VPC

**Answer: D**

**Explanation:**

A Virtual Private Cloud (VPC) is a virtual network dedicated to the user's AWS account. A user can create a subnet with VPC and launch instances inside that subnet. When the user is launching an instance he needs to select an option which attaches a public IP to the instance. If the user has not selected the option to attach the public IP then it will only have a private IP when launched. If the user wants to connect to an instance from the internet he should create an elastic IP with VPC. If the elastic IP is a part of EC2 Classic it cannot be assigned to a VPC instance.

**NEW QUESTION 220**

- (Topic 3)

A user is trying to send custom metrics to CloudWatch using the PutMetricData APIs. Which of the below mentioned points should the user need to take care while sending the data to CloudWatch?

- A. The size of a request is limited to 8KB for HTTP GET requests and 40KB for HTTP POST requests
- B. The size of a request is limited to 128KB for HTTP GET requests and 64KB for HTTP POST requests
- C. The size of a request is limited to 40KB for HTTP GET requests and 8KB for HTTP POST requests
- D. The size of a request is limited to 16KB for HTTP GET requests and 80KB for HTTP POST requests

**Answer: A**

**Explanation:**

With AWS CloudWatch, the user can publish data points for a metric that share not only the same time stamp, but also the same namespace and dimensions. CloudWatch can accept multiple data points in the same PutMetricData call with the same time stamp. The only thing that the user needs to take care of is that the size of a PutMetricData request is limited to 8KB for HTTP GET requests and 40KB for HTTP POST requests.

**NEW QUESTION 221**

- (Topic 3)

A user is planning to schedule a backup for an EBS volume. The user wants security of the snapshot data. How can the user achieve data encryption with a snapshot?

- A. Use encrypted EBS volumes so that the snapshot will be encrypted by AWS
- B. While creating a snapshot select the snapshot with encryption
- C. By default the snapshot is encrypted by AWS
- D. Enable server side encryption for the snapshot using S3

**Answer: A**

**Explanation:**

AWS EBS supports encryption of the volume. It also supports creating volumes from existing snapshots provided the snapshots are created from encrypted volumes. The data at rest, the I/O as well as all the snapshots of the encrypted EBS will also be encrypted. EBS encryption is based on the AES-256 cryptographic algorithm, which is the industry standard.

**NEW QUESTION 222**

- (Topic 3)

A user has launched an EC2 instance. However, due to some reason the instance was terminated. If the user wants to find out the reason for termination, where can he find the details?

- A. It is not possible to find the details after the instance is terminated
- B. The user can get information from the AWS console, by checking the Instance description under the State transition reason label

- C. The user can get information from the AWS console, by checking the Instance description under the Instance Status Change reason label
- D. The user can get information from the AWS console, by checking the Instance description under the Instance Termination reason label

**Answer:** D

**Explanation:**

An EC2 instance, once terminated, may be available in the AWS console for a while after termination. The user can find the details about the termination from the description tab under the label State transition reason. If the instance is still running, there will be no reason listed. If the user has explicitly stopped or terminated the instance, the reason will be "User initiated shutdown".

#### NEW QUESTION 226

- (Topic 3)

Which of the below mentioned AWS RDS logs cannot be viewed from the console for MySQL?

- A. Error Log
- B. Slow Query Log
- C. Transaction Log
- D. General Log

**Answer:** C

**Explanation:**

The user can view, download, and watch the database logs using the Amazon RDS console, the Command Line Interface (CLI), or the Amazon RDS API. For the MySQL RDS, the user can view the error log, slow querylog, and general logs. RDS does not support viewing the transaction logs.

#### NEW QUESTION 230

- (Topic 3)

A user has configured ELB with SSL using a security policy for secure negotiation between the client and load balancer. Which of the below mentioned SSL protocols is not supported by the security policy?

- A. TLS 1.3
- B. TLS 1.2
- C. SSL 2.0
- D. SSL 3.0

**Answer:** A

**Explanation:**

Elastic Load Balancing uses a Secure Socket Layer (SSL) negotiation configuration which is known as a Security Policy. It is used to negotiate the SSL connections between a client and the load balancer. Elastic Load Balancing supports the following versions of the SSL protocol: TLS 1.2 TLS 1.1 TLS 1.0 SSL 3.0 SSL 2.0

#### NEW QUESTION 235

- (Topic 3)

A user has two EC2 instances running in two separate regions. The user is running an internal memory management tool, which captures the data and sends it to CloudWatch in US East, using a CLI with the same namespace and metric. Which of the below mentioned options is true with respect to the above statement?

- A. The setup will not work as CloudWatch cannot receive data across regions
- B. CloudWatch will receive and aggregate the data based on the namespace and metric
- C. CloudWatch will give an error since the data will conflict due to two sources
- D. CloudWatch will take the data of the server, which sends the data first

**Answer:** B

**Explanation:**

Amazon CloudWatch does not differentiate the source of a metric when receiving custom data. If the user is publishing a metric with the same namespace and dimensions from different sources, CloudWatch will treat them as a single metric. If the data is coming with the same timezone within a minute, CloudWatch will aggregate the data. It treats these as a single metric, allowing the user to get the statistics, such as minimum, maximum, average, and the sum of all across all servers.

#### NEW QUESTION 240

- (Topic 3)

A user has launched an EC2 instance. The instance got terminated as soon as it was launched. Which of the below mentioned options is not a possible reason for this?

- A. The user account has reached the maximum EC2 instance limit
- B. The snapshot is corrupt
- C. The AMI is missing
- D. It is the required part
- E. The user account has reached the maximum volume limit

**Answer:** A

**Explanation:**

When the user account has reached the maximum number of EC2 instances, it will not be allowed to launch an instance. AWS will throw an 'InstanceLimitExceeded' error. For all other reasons, such as "AMI is missing part", "Corrupt Snapshot" or "Volume limit has reached" it will launch an EC2 instance and then terminate it.

#### NEW QUESTION 244

- (Topic 3)

A user has setup an Auto Scaling group. The group has failed to launch a single instance for more than 24 hours. What will happen to Auto Scaling in this condition?

- A. Auto Scaling will keep trying to launch the instance for 72 hours
- B. Auto Scaling will suspend the scaling process
- C. Auto Scaling will start an instance in a separate region
- D. The Auto Scaling group will be terminated automatically

**Answer: B**

#### Explanation:

If Auto Scaling is trying to launch an instance and if the launching of the instance fails continuously, it will suspend the processes for the Auto Scaling groups since it repeatedly failed to launch an instance. This is known as an administrative suspension. It commonly applies to the Auto Scaling group that has no running instances which is trying to launch instances for more than 24 hours, and has not succeeded in that to do so.

#### NEW QUESTION 248

- (Topic 3)

In order to optimize performance for a compute cluster that requires low inter-node latency, which feature in the following list should you use?

- A. AWS Direct Connect
- B. Placement Groups
- C. VPC private subnets
- D. EC2 Dedicated Instances
- E. Multiple Availability Zones

**Answer: D**

#### NEW QUESTION 249

- (Topic 3)

A user is trying to pre-warm a blank EBS volume attached to a Linux instance. Which of the below mentioned steps should be performed by the user?

- A. There is no need to pre-warm an EBS volume
- B. Contact AWS support to pre-warm
- C. Unmount the volume before pre-warming
- D. Format the device

**Answer: C**

#### Explanation:

When the user creates a new EBS volume or restores a volume from the snapshot, the back-end storage blocks are immediately allocated to the user EBS. However, the first time when the user is trying to access a block of the storage, it is recommended to either be wiped from the new volumes or instantiated from the snapshot (for restored volumes. before the user can access the block. This preliminary action takes time and can cause a 5 to 50 percent loss of IOPS for the volume when the block is accessed for the first time. To avoid this it is required to pre warm the volume. Pre-warming an EBS volume on a Linux instance requires that the user should unmount the blank device first and then write all the blocks on the device using a command, such as "dd".

#### NEW QUESTION 251

- (Topic 3)

A user has created a VPC with CIDR 20.0.0.0/16 using the wizard. The user has created a public subnet CIDR (20.0.0.0/24. and VPN only subnets CIDR (20.0.1.0/24. along with the VPN gateway (vgw-12345. to connect to the user's data centre. The user's data centre has CIDR 172.28.0.0/12. The user has also setup a NAT instance (i-123456. to allow traffic to the internet from the VPN subnet. Which of the below mentioned options is not a valid entry for the main route table in this scenario?

- A. Destination: 20.0.1.0/24 and Target: i-12345
- B. Destination: 0.0.0.0/0 and Target: i-12345
- C. Destination: 172.28.0.0/12 and Target: vgw-12345
- D. Destination: 20.0.0.0/16 and Target: local

**Answer: A**

#### Explanation:

The user can create subnets as per the requirement within a VPC. If the user wants to connect VPC from his own data centre, he can setup a public and VPN only subnet which uses hardware VPN access to connect with his data centre. When the user has configured this setup with Wizard, it will create a virtual private gateway to route all traffic of the VPN subnet. If the user has setup a NAT instance to route all the internet requests then all requests to the internet should be routed to it. All requests to the organization's DC will be routed to the VPN gateway. Here are the valid entries for the main route table in this scenario: Destination: 0.0.0.0/0 & Target: i-12345 (To route all internet traffic to the NAT Instance. Destination: 172.28.0.0/12 & Target: vgw-12345 (To route all the organization's data centre traffic to the VPN gateway. Destination: 20.0.0.0/16 & Target: local (To allow local routing in VPC.

#### NEW QUESTION 254

- (Topic 3)

A user has configured ELB with two EBS backed instances. The user has stopped the instances for 1 week to save costs. The user restarts the instances after 1 week. Which of the below mentioned statements will help the user to understand the ELB and instance registration better?

- A. There is no way to register the stopped instances with ELB
- B. The user cannot stop the instances if they are registered with ELB
- C. If the instances have the same Elastic IP assigned after reboot they will be registered with ELB
- D. The instances will automatically get registered with ELB

**Answer: C**

**Explanation:**

Elastic Load Balancing registers the user's load balancer with his EC2 instance using the associated IP address. When the instances are stopped and started back they will have a different IP address. Thus, they will not get registered with ELB unless the user manually registers them. If the instances are assigned the same Elastic IP after reboot they will automatically get registered with ELB.

#### NEW QUESTION 258

- (Topic 3)

A user has launched a Windows based EC2 instance. However, the instance has some issues and the user wants to check the log. When the user checks the Instance console output from the AWS console, what will it display?

- A. All the event logs since instance boot
- B. The last 10 system event log error
- C. The Windows instance does not support the console output
- D. The last three system events' log errors

**Answer: D**

**Explanation:**

The AWS EC2 console provides a useful tool called Console output for problem diagnosis. It is useful to find out any kernel issues, termination reasons or service configuration issues. For a Windows instance it lists the last three system event log errors. For Linux it displays the exact console output.

#### NEW QUESTION 262

- (Topic 3)

A user has created a VPC with CIDR 20.0.0.0/16 using VPC Wizard. The user has created a public CIDR (20.0.0.0/24. and a VPN only subnet CIDR (20.0.1.0/24. along with the hardware VPN access to connect to the user's data centre. Which of the below mentioned components is not present when the VPC is setup with the wizard?

- A. Main route table attached with a VPN only subnet
- B. A NAT instance configured to allow the VPN subnet instances to connect with the internet
- C. Custom route table attached with a public subnet
- D. An internet gateway for a public subnet

**Answer: B**

**Explanation:**

The user can create subnets as per the requirement within a VPC. If the user wants to connect VPC from his own data centre, he can setup a public and VPN only subnet which uses hardware VPN access to connect with his data centre. When the user has configured this setup with Wizard, it will update the main route table used with the VPN-only subnet, create a custom route table and associate it with the public subnet. It also creates an internet gateway for the public subnet. The wizard does not create a NAT instance by default. The user can create it manually and attach it with a VPN only subnet.

#### NEW QUESTION 263

A user has deployed an application on his private cloud. The user is using his own monitoring tool. He wants to configure that whenever there is an error, the monitoring tool should notify him via SMS. Which of the below mentioned AWS services will help in this scenario?

- A. None because the user infrastructure is in the private cloud/
- B. AWS SNS
- C. AWS SES
- D. AWS SMS

**Answer: B**

**Explanation:**

Amazon Simple Notification Service (Amazon SNS. is a fast, flexible, and fully managed push messaging service. Amazon SNS can be used to make push notifications to mobile devices. Amazon SNS can deliver notifications by SMS text message or email to the Amazon Simple Queue Service (SQS. queues or to any HTTP endpoint. In this case user can use the SNS apis to send SMS.

#### NEW QUESTION 264

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