

## AWS-SysOps Dumps

### Amazon AWS Certified SysOps Administrator - Associate

<https://www.certleader.com/AWS-SysOps-dumps.html>



**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)

What would happen to an RDS (Relational Database Service) multi-Availability Zone deployment of the primary OB instance fails?

- A. The IP of the primary DB instance is switched to the standby OB instance
- B. The RDS (Relational Database Service) DB instance reboots
- C. A new DB instance is created in the standby availability zone
- D. The canonical name record (CNAME) is changed from primary to standby

**Answer: D**

**NEW QUESTION 3**

- (Topic 1)

A customer has a web application that uses cookie Based sessions to track logged in users It Is deployed on AWS using ELB and Auto Scaling The customer observes that when load increases. Auto Scaling launches new Instances but the load on the easting Instances does not decrease, causing all existing users to have a sluggish experience.

Which two answer choices independently describe a behavior that could be the cause of the sluggish user experience? Choose 2 answers

- A. ELB's normal behavior sends requests from the same user to the same backend instance
- B. ELB's behavior when sticky sessions are enabled causes ELB to send requests in the same session to the same backend instance
- C. A faulty browser is not honoring the TTL of the ELB DNS nam
- D. The web application uses long polling such as comet or websocket
- E. Thereby keeping a connection open to a web server tor a long time
- F. The web application uses long polling such as comet or websocket
- G. Thereby keeping a connection open to a web server for a long tim

**Answer: BD**

**NEW QUESTION 4**

- (Topic 1)

You use S3 to store critical data for your company Several users within your group currently have lull permissions to your S3 buckets You need to come up with a solution mat does not impact your users and also protect against the accidental deletion of objects.

Which two options will address this issue? Choose 2 answers

- A. Enable versioning on your S3 Buckets
- B. Configure your S3 Buckets with MFA delete
- C. Create a Bucket policy and only allow read only permissions to all users at the bucket level
- D. Enable object life cycle policies and configure the data older than 3 months to be archived in Glacier

**Answer: AB**

**NEW QUESTION 5**

- (Topic 1)

You are managing a legacy application Inside VPC with hard coded IP addresses in its configuration.

Which two mechanisms will allow the application to failover to new instances without the need for reconfiguration? Choose 2 answers

- A. Create an ELB to reroute traffic to a failover instance
- B. Create a secondary ENI that can be moved to a failover instance
- C. Use Route53 health checks to fail traffic over to a failover instance
- D. Assign a secondary private IP address to the primary ENIO that can be moved to a failover instance

**Answer: AD**

**NEW QUESTION 6**

- (Topic 1)

What is a placement group?

- A. A collection of Auto Scaling groups in the same Region

- B. Feature that enables EC2 instances to interact with each other via high bandwidth, low latency connections
- C. A collection of Elastic Load Balancers in the same Region or Availability Zone
- D. A collection of authorized Cloud Front edge locations for a distribution

**Answer:** B

**Explanation:**

Reference:  
<http://aws.amazon.com/ec2/faqs/>

**NEW QUESTION 7**

- (Topic 1)

An application that you are managing has EC2 instances & DynamoDB tables deployed to several AWS Regions. In order to monitor the performance of the application globally, you would like to see two graphs: 1) Avg CPU Utilization across all EC2 instances and 2) Number of Throttled Requests for all DynamoDB tables.

How can you accomplish this?

- A. Tag your resources with the application name, and select the tag name as the dimension in the CloudWatch Management console to view the respective graphs
- B. Use the CloudWatch CLI tools to pull the respective metrics from each regional endpoint. Aggregate the data offline & store it for graphing in CloudWatch
- C. Add SNMP traps to each instance and DynamoDB table. Leverage a central monitoring server to capture data from each instance and table. Put the aggregate data into CloudWatch for graphing
- D. Add a CloudWatch agent to each instance and attach one to each DynamoDB table
- E. When configuring the agent, set the appropriate application name & view the graphs in CloudWatch

**Answer:** C

**NEW QUESTION 8**

- (Topic 1)

You have an Auto Scaling group associated with an Elastic Load Balancer (ELB). You have noticed that instances launched via the Auto Scaling group are being marked unhealthy due to an ELB health check, but these unhealthy instances are not being terminated.

What do you need to do to ensure that instances marked unhealthy by the ELB will be terminated and replaced?

- A. Change the thresholds set on the Auto Scaling group health check
- B. Add an Elastic Load Balancing health check to your Auto Scaling group
- C. Increase the value for the Health check interval set on the Elastic Load Balancer
- D. Change the health check set on the Elastic Load Balancer to use TCP rather than HTTP checks

**Answer:** B

**Explanation:**

Reference:  
<http://docs.aws.amazon.com/AutoScaling/latest/DeveloperGuide/as-add-elb-healthcheck.html>

Add an Elastic Load Balancing Health Check to your Auto Scaling Group

By default, an Auto Scaling group periodically reviews the results of EC2 instance status to determine the health state of each instance. However, if you have associated your Auto Scaling group with an Elastic Load Balancing load balancer, you can choose to use the Elastic Load Balancing health check. In this case, Auto Scaling determines the health status of your instances by checking the results of both the EC2 instance status check and the Elastic Load Balancing instance health check.

For information about EC2 instance status checks, see *Monitor Instances With Status Checks* in the *Amazon EC2 User Guide for Linux Instances*. For information about Elastic Load Balancing health checks, see *Health Check* in the *Elastic Load Balancing Developer Guide*.

This topic shows you how to add an Elastic Load Balancing health check to your Auto Scaling group, assuming that you have created a load balancer and have registered the load balancer with your Auto Scaling group. If you have not registered the load balancer with your Auto Scaling group, see *Set Up a Scaled and Load-Balanced Application*.

Auto Scaling marks an instance unhealthy if the calls to the Amazon EC2 action `DescribeInstanceStatus` return any state other than `running`, the system status shows `impaired`, or the calls to Elastic Load Balancing action `DescribeInstanceHealth` returns `OutOfService` in the instance state field.

If there are multiple load balancers associated with your Auto Scaling group, Auto Scaling checks the health state of your EC2 instances by making health check calls to each load balancer. For each call, if the Elastic Load Balancing action returns any state other than `InService`, the instance is marked as unhealthy. After Auto Scaling marks an instance as unhealthy, it remains in that state, even if subsequent calls from other load balancers return an `InService` state for the same instance.

**NEW QUESTION 9**

- (Topic 1)

What are characteristics of Amazon S3? Choose 2 answers

- A. Objects are directly accessible via a URL
- B. S3 should be used to host a relational database
- C. S3 allows you to store objects of virtually unlimited size
- D. S3 allows you to store virtually unlimited amounts of data
- E. S3 offers Provisioned IOPS

**Answer:** AD

**NEW QUESTION 10**

- (Topic 2)

A user is accessing RDS from an application. The user has enabled the Multi-AZ feature with the MS SQL RDS DB. During a planned outage, how will AWS ensure that a switch from DB to a standby replica will not affect access to the application?

- A. RDS will have an internal IP which will redirect all requests to the new DB
- B. RDS uses DNS to switch over to standby replica for seamless transition
- C. The switch over changes hardware so RDS does not need to worry about access

D. RDS will have both the DBs running independently and the user has to manually switch over

**Answer:** B

**Explanation:**

In the event of a planned or unplanned outage of a DB instance, Amazon RDS automatically switches to a standby replica in another Availability Zone if the user has enabled Multi AZ. The automatic failover mechanism simply changes the DNS record of the DB instance to point to the standby DB instance. As a result, the user will need to re-establish any existing connections to the DB instance. However, as the DNS is the same, the application can access DB seamlessly.

#### NEW QUESTION 10

- (Topic 2)

A user is planning to use AWS Cloudformation. Which of the below mentioned functionalities does not help him to correctly understand Cloudformation?

- A. Cloudformation follows the DevOps model for the creation of Dev & Test
- B. AWS Cloudformation does not charge the user for its service but only charges for the AWS resources created with it
- C. Cloudformation works with a wide variety of AWS services, such as EC2, EBS, VPC, IAM, S3, RDS, ELB, etc
- D. CloudFormation provides a set of application bootstrapping scripts which enables the user to install Software

**Answer:** A

**Explanation:**

AWS Cloudformation is an application management tool which provides application modelling, deployment, configuration, management and related activities. It supports a wide variety of AWS services, such as EC2, EBS, AS, ELB, RDS, VPC, etc. It also provides application bootstrapping scripts which enable the user to install software packages or create folders. It is free of the cost and only charges the user for the services created with it. The only challenge is that it does not follow any model, such as DevOps; instead customers can define templates and use them to provision and manage the AWS resources in an orderly way.

#### NEW QUESTION 13

- (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 17

- (Topic 2)

A user has received a message from the support team that an issue occurred 1 week back between 3 AM to 4 AM and the EC2 server was not reachable. The user is checking the CloudWatch metrics of that instance. How can the user find the data easily using the CloudWatch console?

- A. The user can find the data by giving the exact values in the time Tab under CloudWatch metrics
- B. The user can find the data by filtering values of the last 1 week for a 1 hour period in the Relative tab under CloudWatch metrics
- C. It is not possible to find the exact time from the console
- D. The user has to use CLI to provide the specific time
- E. The user can find the data by giving the exact values in the Absolute tab under CloudWatch metrics

**Answer:** D

**Explanation:**

If the user is viewing the data inside the CloudWatch console, the console provides options to filter values either using the relative period, such as days /hours or using the Absolute tab where the user can provide data with a specific date and time. The console also provides the option to search using the local timezone under the time range caption in the console.

#### NEW QUESTION 21

- (Topic 2)

A user has created a VPC with CIDR 20.0.0.0/16. The user has created public and VPN only subnets along with hardware VPN access to connect to the user's datacenter. The user wants to make so that all traffic coming to the public subnet follows the organization's proxy policy. How can the user make this happen?

- A. Setting up a NAT with the proxy protocol and configure that the public subnet receives traffic from NAT
- B. Setting up a proxy policy in the internet gateway connected with the public subnet
- C. It is not possible to setup the proxy policy for a public subnet
- D. Setting the route table and security group of the public subnet which receives traffic from a virtual private gateway

**Answer:** D

**Explanation:**

The user can create subnets within a VPC. If the user wants to connect to VPC from his own data centre, he can setup public and VPN only subnets which uses hardware VPN access to connect with his data centre. When the user has configured this setup, 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. By default the internet traffic of the VPN subnet is routed to a virtual private gateway while the internet traffic of the public subnet is routed through the internet gateway. The user can set up the route and security group rules. These rules enable the traffic to come from the organization's network over the virtual private gateway to the public subnet to allow proxy settings on that public subnet.

**NEW QUESTION 24**

- (Topic 2)

A user has created a photo editing software and hosted it on EC2. The software accepts requests from the user about the photo format and resolution and sends a message to S3 to enhance the picture accordingly. Which of the below mentioned AWS services will help make a scalable software with the AWS infrastructure in this scenario?

- A. AWS Glacier
- B. AWS Elastic Transcoder
- C. AWS Simple Notification Service
- D. AWS Simple Queue Service

**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 configure SQS, which will decouple the call between the EC2 application and S3. Thus, the application does not keep waiting for S3 to provide the data.

**NEW QUESTION 28**

- (Topic 2)

A user is planning to evaluate AWS for their internal use. The user does not want to incur any charge on his account during the evaluation. Which of the below mentioned AWS services would incur a charge if used?

- A. AWS S3 with 1 GB of storage
- B. AWS micro instance running 24 hours daily
- C. AWS ELB running 24 hours a day
- D. AWS PIOPS volume of 10 GB size

**Answer:** D

**Explanation:**

AWS is introducing a free usage tier for one year to help the new AWS customers get started in Cloud. The free tier can be used for anything that the user wants to run in the Cloud. AWS offers a handful of AWS services as a part of this which includes 750 hours of free micro instances and 750 hours of ELB. It includes the AWS S3 of 5 GB and AWS EBS general purpose volume upto 30 GB. PIOPS is not part of free usage tier.

**NEW QUESTION 30**

- (Topic 2)

A user is planning to use AWS Cloud formation for his automatic deployment requirements. Which of the below mentioned components are required as a part of the template?

- A. Parameters
- B. Outputs
- C. Template version
- D. Resources

**Answer:** D

**Explanation:**

AWS Cloud formation is an application management tool which provides application modelling, deployment, configuration, management and related activities. The template is a JSON-format, text-based file that describes all the AWS resources required to deploy and run an application. It can have option fields, such as Template Parameters, Output, Data tables, and Template file format version. The only mandatory value is Resource. The user can define the AWS services which will be used/ created by this template inside the Resource section

**NEW QUESTION 32**

- (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 analyser 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 34**

- (Topic 2)

A user has launched an EC2 instance from an instance store backed AMI. The infrastructure team wants to create an AMI from the running instance. Which of the below mentioned steps will not be performed while creating the AMI?

- A. Define the AMI launch permissions
- B. Upload the bundled volume
- C. Register the AMI
- D. Bundle the volume

**Answer:** A

**Explanation:**

When the user has launched an EC2 instance from an instance store backed AMI, it will need to follow certain steps, such as "Bundling the root volume", "Uploading the bundled volume" and "Register the AMI". Once the AMI is created the user can setup the launch permission. However, it is not required to setup during the launch.

**NEW QUESTION 38**

- (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 42**

- (Topic 2)

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?

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

**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.

**NEW QUESTION 43**

- (Topic 2)

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

**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.

**NEW QUESTION 44**

- (Topic 2)

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 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

**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.

#### NEW QUESTION 45

- (Topic 2)

A user has created an ELB with Auto Scaling. Which of the below mentioned offerings from ELB helps the user to stop sending new requests traffic from the load balancer to the EC2 instance when the instance is being deregistered while continuing in-flight requests?

- A. ELB sticky session
- B. ELB deregistration check
- C. ELB connection draining
- D. ELB auto registration Off

**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 in-flight requests continue to be served.

#### NEW QUESTION 48

- (Topic 2)

An organization (Account ID 123412341234, has attached the below mentioned IAM policy to a user. What does this policy statement entitle the user to perform?

```
"Statement": [  
{  
  "Sid": "AllowUsersAllActionsForCredentials",  
  "Effect": "Allow",  
  "Action": [  
    "iam:*AccessKey*",  
  ],  
  "Resource": ["arn:aws:iam:: 123412341234:user/${aws:username}"]  
}]
```

- A. 0
- B. 0
- C. 0
- D. 0

**Answer: A**

**Explanation:**

AWS Identity and Access Management is a web service which allows organizations to manage users and user permissions for various AWS services. If the organization (Account ID 123412341234, wants some of their users to manage keys (access and secret access keys, of all IAM users, the organization should set the below mentioned policy which entitles the IAM user to modify keys of all IAM users with CLI, SDK or API.

```
"Statement": [  
{  
  "Sid": "AllowUsersAllActionsForCredentials",  
  "Effect": "Allow",  
  "Action": [  
    "iam:*AccessKey*",  
  ],  
  "Resource": ["arn:aws:iam:: 123412341234:user/${aws:username}"]  
}]
```

#### NEW QUESTION 52

- (Topic 2)

An organization has configured the custom metric upload with CloudWatch. The organization has given permission to its employees to upload data using CLI as well SDK. How can the user track the calls made to CloudWatch?

- A. The user can enable logging with CloudWatch which logs all the activities
- B. Use CloudTrail to monitor the API calls
- C. Create an IAM user and allow each user to log the data using the S3 bucket
- D. Enable detailed monitoring with CloudWatch

**Answer:** B

**Explanation:**

AWS CloudTrail is a web service which will allow the user to monitor the calls made to the Amazon CloudWatch API for the organization's account, including calls made by the AWS Management Console, Command Line Interface (CLI), and other services. When CloudTrail logging is turned on, CloudWatch will write log files into the Amazon S3 bucket, which is specified during the CloudTrail configuration.

#### **NEW QUESTION 57**

- (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 58**

- (Topic 2)

A user has recently started using EC2. The user launched one EC2 instance in the default subnet in EC2-VPC. Which of the below mentioned options is not attached or available with the EC2 instance when it is launched?

- A. Public IP address
- B. Internet gateway
- C. Elastic IP
- D. Private IP address

**Answer:** C

**Explanation:**

A Virtual Private Cloud (VPC) is a virtual network dedicated to a user's AWS account. A subnet is a range of IP addresses in the VPC. The user can launch the AWS resources into a subnet. There are two supported platforms into which a user can launch instances: EC2-Classic and EC2-VPC (default subnet). A default VPC has all the benefits of EC2-VPC and the ease of use of EC2-Classic. Each instance that the user launches into a default subnet has a private IP address and a public IP address. These instances can communicate with the internet through an internet gateway. An internet gateway enables the EC2 instances to connect to the internet through the Amazon EC2 network edge.

#### **NEW QUESTION 59**

- (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 64**

- (Topic 3)

A user has created a VPC with a public subnet. The user has terminated all the instances which are part of the subnet. Which of the below mentioned statements is true with respect to this scenario?

- A. The user cannot delete the VPC since the subnet is not deleted
- B. All network interface attached with the instances will be deleted
- C. When the user launches a new instance it cannot use the same subnet
- D. The subnet to which the instances were launched with will be deleted

**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. When an instance is launched it will have a network interface attached with it. The user cannot delete the subnet until he terminates the instance and deletes the network interface. When the user terminates the instance all the network interfaces attached with it are also deleted.

**NEW QUESTION 69**

- (Topic 3)

A user has deployed an application on an EBS backed EC2 instance. For a better performance of application, it requires dedicated EC2 to EBS traffic. How can the user achieve this?

- A. Launch the EC2 instance as EBS dedicated with PIOPS EBS
- B. Launch the EC2 instance as EBS enhanced with PIOPS EBS
- C. Launch the EC2 instance as EBS dedicated with PIOPS EBS
- D. Launch the EC2 instance as EBS optimized with PIOPS EBS

**Answer:** D

**Explanation:**

Any application which has performance sensitive workloads and requires minimal variability with dedicated EC2 to EBS traffic should use provisioned IOPS EBS volumes, which are attached to an EBS-optimized EC2 instance or it should use an instance with 10 Gigabit network connectivity. Launching an instance that is EBS optimized provides the user with a dedicated connection between the EC2 instance and the EBS volume.

**NEW QUESTION 70**

- (Topic 3)

A user has launched an EC2 instance from an instance store backed AMI. The user has attached an additional instance store volume to the instance. The user wants to create an AMI from the running instance. Will the AMI have the additional instance store volume data?

- A. Yes, the block device mapping will have information about the additional instance store volume
- B. No, since the instance store backed AMI can have only the root volume bundled
- C. It is not possible to attach an additional instance store volume to the existing instance store backed AMI instance
- D. No, since this is ephemeral storage it will not be a part of the AMI

**Answer:** A

**Explanation:**

When the user has launched an EC2 instance from an instance store backed AMI and added an instance store volume to the instance in addition to the root device volume, the block device mapping for the new AMI contains the information for these volumes as well. In addition, the block device mappings for the instances those are launched from the new AMI will automatically contain information for these volumes.

**NEW QUESTION 72**

- (Topic 3)

An organization has created a Queue named "modularqueue" with SQS. The organization is not performing any operations such as SendMessage, ReceiveMessage, DeleteMessage, GetQueueAttributes, SetQueueAttributes, AddPermission, and RemovePermission on the queue. What can happen in this scenario?

- A. AWS SQS sends notification after 15 days for inactivity on queue
- B. AWS SQS can delete queue after 30 days without notification
- C. AWS SQS marks queue inactive after 30 days
- D. AWS SQS notifies the user after 2 weeks and deletes the queue after 3 week

**Answer:** B

**Explanation:**

Amazon SQS can delete a queue without notification if one of the following actions hasn't been performed on it for 30 consecutive days: SendMessage, ReceiveMessage, DeleteMessage, GetQueueAttributes, SetQueueAttributes, AddPermission, and RemovePermission.

**NEW QUESTION 75**

- (Topic 3)

An organization has created one IAM user and applied the below mentioned policy to the user. What entitlements do the IAM users avail with this policy?

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": "ec2:Describe*",
      "Resource": "*"
    },
    {
      "Effect": "Allow"
      "Action": [
        "cloudwatch:ListMetrics",
        "cloudwatch:GetMetricStatistics",
        "cloudwatch:Describe*"
      ],
      "Resource": "*"
    }
  ]
}
```

```
"Effect": "Allow",
"Action": "autoscaling:Describe*",
"Resource": "*"
}
]
}
```

- A. The policy will allow the user to perform all read only activities on the EC2 services
- B. The policy will allow the user to list all the EC2 resources except EBS
- C. The policy will allow the user to perform all read and write activities on the EC2 services
- D. The policy will allow the user to perform all read only activities on the EC2 services except load Balancing

**Answer: D**

**Explanation:**

AWS Identity and Access Management is a web service which allows organizations to manage users and user permissions for various AWS services. If an organization wants to setup read only access to EC2 for a particular user, they should mention the action in the IAM policy which entitles the user for Describe rights for EC2, CloudWatch, Auto Scaling and ELB. In the policy shown below, the user will have read only access for EC2 and EBS, CloudWatch and Auto Scaling. Since ELB is not mentioned as a part of the list, the user will not have access to ELB.

```
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action": "ec2:Describe*",
"Resource": "*"
},
{
"Effect": "Allow",
"Action": [
"cloudwatch:ListMetrics",
"cloudwatch:GetMetricStatistics",
"cloudwatch:Describe*"
],
"Resource": "*"
},
{
"Effect": "Allow",
"Action": "autoscaling:Describe*",
"Resource": "*"
}
]
}
```

**NEW QUESTION 78**

- (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 83**

- (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 87**

- (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 91**

- (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 randomness. 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 96**

- (Topic 3)

An organization has configured Auto Scaling with ELB. One of the instance health checks returns the status as Impaired to Auto Scaling. What will Auto Scaling do in this scenario?

- A. Perform a health check until cool down before declaring that the instance has failed
- B. Terminate the instance and launch a new instance
- C. Notify the user using SNS for the failed state
- D. Notify ELB to stop sending traffic to the impaired instance

**Answer: B**

**Explanation:**

The Auto Scaling group determines the health state of each instance periodically by checking the results of the Amazon EC2 instance status checks. If the instance status description shows any other state other than "running" or the system status description shows impaired, Auto Scaling considers the instance to be unhealthy. Thus, it terminates the instance and launches a replacement.

**NEW QUESTION 98**

- (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 101**

- (Topic 3)

A user is collecting 1000 records per second. The user wants to send the data to CloudWatch using the custom namespace. Which of the below mentioned options is recommended for this activity?

- A. Aggregate the data with statistics, such as Min, max, Average, Sum and Sample data and send the data to CloudWatch
- B. Send all the data values to CloudWatch in a single command by separating them with a comm
- C. CloudWatch will parse automatically
- D. Create one csv file of all the data and send a single file to CloudWatch
- E. It is not possible to send all the data in one cal
- F. Thus, it should be sent one by on
- G. CloudWatch will aggregate the data automatically

**Answer:** A

**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 data to CloudWatch as single data points or as an aggregated set of data points called a statistic set using the command `put-metric-data`. It is recommended that when the user is having multiple data points per minute, he should aggregate the data so that it will minimize the number of calls to `put-metric-data`. In this case it will be single call to CloudWatch instead of 1000 calls if the data is aggregated.

#### NEW QUESTION 105

- (Topic 3)

A user has configured an EC2 instance in the US-East-1a zone. The user has enabled detailed monitoring of the instance. The user is trying to get the data from CloudWatch using a CLI. Which of the below mentioned CloudWatch endpoint URLs should the user use?

- A. `monitoring.us-east-1.amazonaws.com`
- B. `monitoring.us-east-1-a.amazonaws.com`
- C. `monitoring.us-east-1a.amazonaws.com`
- D. `cloudwatch.us-east-1a.amazonaws.com`

**Answer:** A

**Explanation:**

The CloudWatch resources are always region specific and they will have the end point as region specific. If the user is trying to access the metric in the US-East-1 region, the endpoint URL will be: `monitoring.us-east-1.amazonaws.com`

#### NEW QUESTION 109

- (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 110

- (Topic 3)

A user runs the command `dd if=/dev/zero of=/dev/xvdfbs=1M` on a fresh blank EBS volume attached to a Linux instance. Which of the below mentioned activities is the user performing with the command given above?

- A. Creating a file system on the EBS volume
- B. Mounting the device to the instance
- C. Pre warming the EBS volume
- D. Formatting the EBS volume

**Answer:** C

**Explanation:**

When the user creates a new EBS volume and is trying to access it for the first time it will encounter reduced IOPS due to wiping or initiating of the block storage. To avoid this as well as achieve the best performance it is required to pre warm the EBS volume. For a blank volume attached with a Linux OS, the `dd` command is used to write to all the blocks on the device. In the command `dd if=/dev/zero of=/dev/xvdfbs=1M` the parameter `if =import file` should be set to one of the Linux virtual devices, such as `/dev/zero`. The `of=output file` parameter should be set to the drive that the user wishes to warm. The `bs` parameter sets the block size of the write operation; for optimal performance, this should be set to 1 MB.

#### NEW QUESTION 111

- (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 113**

- (Topic 3)

A user is planning to set up the Multi AZ feature of RDS. Which of the below mentioned conditions won't take advantage of the Multi AZ feature?

- A. Availability zone outage
- B. A manual failover of the DB instance using Reboot with failover option
- C. Region outage
- D. When the user changes the DB instance's server type

**Answer: C**

**Explanation:**

Amazon RDS when enabled with Multi AZ will handle failovers automatically. Thus, the user can resume database operations as quickly as possible without administrative intervention. The primary DB instance switches over automatically to the standby replica if any of the following conditions occur: An Availability Zone outage The primary DB instance fails The DB instance's server type is changed The DB instance is undergoing software patching A manual failover of the DB instance was initiated using Reboot with failover

#### **NEW QUESTION 116**

- (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 acces
- 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 118**

- (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 dis
- B. The amount of write latenc
- C. The amount of disk space occupied by binary logs on the maste
- 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 secon

**Answer: ABD**

#### **NEW QUESTION 122**

- (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 125**

- (Topic 3)

A user is using CloudFormation to launch an EC2 instance and then configure an application after the instance is launched. The user wants the stack creation of ELB and AutoScaling to wait until the EC2 instance is launched and configured properly. How can the user configure this?

- A. It is not possible that the stack creation will wait until one service is created and launched
- B. The user can use the HoldCondition resource to wait for the creation of the other dependent resources
- C. The user can use the DependentCondition resource to hold the creation of the other dependent resources
- D. The user can use the WaitCondition resource to hold the creation of the other dependent resources

**Answer:** D

**Explanation:**

AWS CloudFormation is an application management tool which provides application modelling, deployment, configuration, management and related activities. AWS CloudFormation provides a WaitCondition resource which acts as a barrier and blocks the creation of other resources until a completion signal is received from an external source, such as a user application or management system.

**NEW QUESTION 130**

- (Topic 3)

An organization has configured Auto Scaling for hosting their application. The system admin wants to understand the Auto Scaling health check process. If the instance is unhealthy, Auto Scaling launches an instance and terminates the unhealthy instance. What is the order execution?

- A. Auto Scaling launches a new instance first and then terminates the unhealthy instance
- B. Auto Scaling performs the launch and terminate processes in a random order
- C. Auto Scaling launches and terminates the instances simultaneously
- D. Auto Scaling terminates the instance first and then launches a new instance

**Answer:** D

**Explanation:**

Auto Scaling keeps checking the health of the instances at regular intervals and marks the instance for replacement when it is unhealthy. The ReplaceUnhealthy process terminates instances which are marked as unhealthy and subsequently creates new instances to replace them. This process first terminates the instance and then launches a new instance.

**NEW QUESTION 131**

- (Topic 3)

A user has enabled versioning on an S3 bucket. The user is using server side encryption for data at rest. If the user is supplying his own keys for encryption (SSE-C), what is recommended to the user for the purpose of security?

- A. The user should not use his own security key as it is not secure
- B. Configure S3 to rotate the user's encryption key at regular intervals
- C. Configure S3 to store the user's keys securely with SSL
- D. Keep rotating the encryption key manually at the client side

**Answer:** D

**Explanation:**

AWS S3 supports client side or server side encryption to encrypt all data at Rest. The server side encryption can either have the S3 supplied AES-256 encryption key or the user can send the key along with each API call to supply his own encryption key (SSE-C). Since S3 does not store the encryption keys in SSE-C, it is recommended that the user should manage keys securely and keep rotating them regularly at the client side version.

**NEW QUESTION 136**

- (Topic 3)

A root account owner is trying to understand the S3 bucket ACL. Which of the below mentioned options cannot be used to grant ACL on the object using the authorized predefined group?

- A. Authenticated user group
- B. All users group
- C. Log Delivery Group
- D. Canonical user group

**Answer:** D

**Explanation:**

An S3 bucket ACL grantee can be an AWS account or one of the predefined Amazon S3 groups. Amazon S3 has a set of predefined groups. When granting account access to a group, the user can specify one of the URLs of that group instead of a canonical user ID. AWS S3 has the following predefined groups: Authenticated Users group: It represents all AWS accounts. All Users group: Access permission to this group allows anyone to access the resource. Log Delivery group: WRITE permission on a bucket enables this group to write server access logs to the bucket.

**NEW QUESTION 140**

- (Topic 3)

A user has launched an RDS PostgreSQL DB with AWS. The user did not specify the maintenance window during creation. The user has configured RDS to update the DB instance type from micro to large. If the user wants to have it during the maintenance window, what will AWS do?

- A. AWS will not allow to update the DB until the maintenance window is configured
- B. AWS will select the default maintenance window if the user has not provided it
- C. AWS will ask the user to specify the maintenance window during the update
- D. It is not possible to change the DB size from micro to large with RDS

**Answer: B**

**Explanation:**

AWS RDS has a compulsory maintenance window which by default is 30 minutes. If the user does not specify the maintenance window during the creation of RDS then AWS will select a 30-minute maintenance window randomly from an 8-hour block of time per region. In this case, Amazon RDS assigns a 30-minute maintenance window on a randomly selected day of the week.

**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 web server security group (WebSecGrp)?

- A. Configure Destination as DB Security group ID (DbSecGr
- B. for port 3306 Outbound
- C. 80 for Destination 0.0.0.0/0 Outbound
- D. Configure port 3306 for source 20.0.0.0/24 InBound
- E. Configure port 80 InBound for source 20.0.0.0/16

**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 public subnet can receive inbound traffic directly from the internet. Thus, the user should configure port 80 with source 0.0.0.0/0 in InBound. The user should configure that the instance in the public subnet can send traffic to the private subnet instances on the DB port. Thus, the user should configure the DB Amazon AWS-SysOps : Practice Test security group of the private subnet (DbSecGrp) as the destination for port 3306 in Outbound.

**NEW QUESTION 146**

- (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
- E. and Glacier (Archiv
- F. 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 149**

- (Topic 3)

A sysadmin has created the below mentioned policy on an S3 bucket named cloudacademy. The bucket has both AWS.jpg and index.html objects. What does this policy define?

```
"Statement": [{  
  "Sid": "Stmnt1388811069831",  
  "Effect": "Allow",  
  "Principal": { "AWS": "*" },  
  "Action": [ "s3:GetObjectAcl", "s3:ListBucket", "s3:GetObject" ],  
  "Resource": [ "arn:aws:s3:::cloudacademy/* .jpg" ]  
}]
```

- A. It will make all the objects as well as the bucket public
- B. It will throw an error for the wrong action and does not allow to save the policy
- C. It will make the AWS.jpg object as public
- D. It will make the AWS.jpg as well as the cloudacademy bucket as public

**Answer: B**

**NEW QUESTION 153**

- (Topic 3)

A user has created a VPC with public and private subnets. The VPC has CIDR 20.0.0.0/16. The private subnet uses CIDR 20.0.1.0/24 and the public subnet uses CIDR 20.0.0.0/24. 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 of the NAT instance. Which of the below mentioned entries is not required for the NAT security group?

- A. For Inbound allow Source: 20.0.1.0/24 on port 80
- B. For Outbound allow Destination: 0.0.0.0/0 on port 80
- C. For Inbound allow Source: 20.0.0.0/24 on port 80
- D. For Outbound allow Destination: 0.0.0.0/0 on port 443

**Answer: C**

**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 connect to the internet using the NAT instances. The user should first configure that NAT can receive traffic on ports 80 and 443 from the private subnet. Thus, allow ports 80 and 443 in Inbound for the private subnet 20.0.1.0/24. Now to route this traffic to the internet configure ports 80 and Amazon AWS-SysOps : Practice Test 443 in Outbound with destination 0.0.0.0/0. The NAT should not have an entry for the public subnet CIDR.

**NEW QUESTION 158**

- (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 161**

- (Topic 3)

A user is trying to create a PIOPS EBS volume with 4000 IOPS and 100 GB size. AWS does not allow the user to create this volume. What is the possible root cause for this?

- A. The ratio between IOPS and the EBS volume is higher than 30
- B. The maximum IOPS supported by EBS is 3000
- C. The ratio between IOPS and the EBS volume is lower than 50
- D. PIOPS is supported for EBS higher than 500 GB size

**Answer: A**

**Explanation:**

A provisioned IOPS EBS volume can range in size from 10 GB to 1 TB and the user can provision up to 4000 IOPS per volume. The ratio of IOPS provisioned to the volume size requested should be a maximum of 30; for example, a volume with 3000 IOPS must be at least 100 GB.

**NEW QUESTION 166**

- (Topic 3)

A .NET application that you manage is running in Elastic Beanstalk. Your developers tell you they will need access to application log files to debug issues that arise. The infrastructure will scale up and down.

How can you ensure the developers will be able to access only the log files?

- A. Access the log files directly from Elastic Beanstalk
- B. Enable log file rotation to S3 within the Elastic Beanstalk configuration
- C. Ask your developers to enable log file rotation in the applications web.config file
- D. Connect to each Instance launched by Elastic Beanstalk and create a Windows Scheduled task to rotate the log files to S3.

**Answer: D**

**Explanation:**

Reference:

<http://docs.aws.amazon.com/elasticbeanstalk/latest/dg/using-features.loggingS3.title.html>

**NEW QUESTION 167**

- (Topic 3)

A user is using the AWS EC2. The user wants to make so that when there is an issue in the EC2 server, such as instance status failed, it should start a new instance in the user's private cloud. Which AWS service helps to achieve this automation?

- A. AWS CloudWatch + Cloudformation
- B. AWS CloudWatch + AWS AutoScaling + AWS ELB
- C. AWS CloudWatch + AWS VPC
- D. AWS CloudWatch + AWS SNS

**Answer:** D

**Explanation:**

Amazon SNS can deliver notifications by SMS text message or email to the Amazon Simple Queue Service (SQS) queues or to any HTTP endpoint. The user can configure a web service (HTTP End point) in his data centre which receives data and launches an instance in the private cloud. The user should configure the CloudWatch alarm to send a notification to SNS when the "StatusCheckFailed" metric is true for the EC2 instance. The SNS topic can be configured to send a notification to the user's HTTP end point which launches an instance in the private cloud.

**NEW QUESTION 171**

- (Topic 3)

A user has created a VPC with a subnet and a security group. The user has launched an instance in that subnet and attached a public IP. The user is still unable to connect to the instance. The internet gateway has also been created. What can be the reason for the error?

- A. The internet gateway is not configured with the route table
- B. The private IP is not present
- C. The outbound traffic on the security group is disabled
- D. The internet gateway is not configured with the security group

**Answer:** A

**Explanation:**

A Virtual Private Cloud (VPC) is a virtual network dedicated to the user's AWS account. AWS provides two features the user can use to increase security in VPC: security groups and network ACLs. Security groups work at the instance level. When a user launches an instance and wants to connect to an instance, he needs an internet gateway. The internet gateway should be configured with the route table to allow traffic from the internet.

**NEW QUESTION 172**

- (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 176**

- (Topic 3)

An organization is measuring the latency of an application every minute and storing data inside a file in the JSON format. The organization wants to send all latency data to AWS CloudWatch. How can the organization achieve this?

- A. The user has to parse the file before uploading data to CloudWatch
- B. It is not possible to upload the custom data to CloudWatch
- C. The user can supply the file as an input to the CloudWatch command
- D. The user can use the CloudWatch Import command to import data from the file to CloudWatch

**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. The user has to always include the namespace as part of the request. If the user wants to upload the custom data from a Amazon AWS-SysOps : Practice Test file, he can supply file name along with the parameter -- metric-data to command put-metric-data.

**NEW QUESTION 178**

- (Topic 3)

A user has granted read/write permission of his S3 bucket using ACL. Which of the below mentioned options is a valid ID to grant permission to other AWS accounts (grantee) using ACL?

- A. IAM User ID
- B. S3 Secure ID
- C. Access ID
- D. Canonical user ID

**Answer:** D

**Explanation:**

An S3 bucket ACL grantee can be an AWS account or one of the predefined Amazon S3 groups. The user can grant permission to an AWS account by the email address of that account or by the canonical user ID. If the user provides an email in the grant request, Amazon S3 finds the canonical user ID for that account and adds it to the ACL. The resulting ACL will always contain the canonical user ID for the AWS account, and not the AWS account's email address.

**NEW QUESTION 179**

- (Topic 3)

A user has created a VPC with CIDR 20.0.0.0/16. The user has created one subnet with CIDR 20.0.0.0/16 by mistake. The user is trying to create another subnet of CIDR 20.0.0.1/24. How can the user create the second subnet?

- A. There is no need to update the subnet as VPC automatically adjusts the CIDR of the first subnet based on the second subnet's CIDR
- B. The user can modify the first subnet CIDR from the console
- C. It is not possible to create a second subnet as one subnet with the same CIDR as the VPC has been created
- D. The user can modify the first subnet CIDR with AWS CLI

**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 the subnet. The user can create a subnet with the same size of VPC. However, he cannot create any other subnet since the CIDR of the second subnet will conflict with the first subnet. The user cannot modify the CIDR of a subnet once it is created. Thus, in this case if required, the user has to delete the subnet and create new subnets.

**NEW QUESTION 180**

- (Topic 3)

A user has created a VPC with CIDR 20.0.0.0/16 using the wizard. The user has created public and VPN only subnets along with hardware VPN access to connect to the user's data centre. The user has not yet launched any instance as well as modified or deleted any setup. He wants to delete this VPC from the console. Will the console allow the user to delete the VPC?

- A. Yes, the console will delete all the setups and also delete the virtual private gateway
- B. No, the console will ask the user to manually detach the virtual private gateway first and then allow deleting the VPC
- C. Yes, the console will delete all the setups and detach the virtual private gateway
- D. No, since the NAT instance is running

**Answer:** C

**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 virtual private gateway is attached with VPC and the user deletes the VPC from the console it will first detach the gateway automatically and only then delete the VPC.

**NEW QUESTION 183**

- (Topic 3)

An AWS root account owner is trying to create a policy to access RDS. Which of the below mentioned statements is true with respect to the above information?

- A. Create a policy which allows the users to access RDS and apply it to the RDS instances
- B. The user cannot access the RDS database if he is not assigned the correct IAM policy
- C. The root account owner should create a policy for the IAM user and give him access to the RDS services
- D. The policy should be created for the user and provide access for RDS

**Answer:** C

**Explanation:**

AWS Identity and Access Management is a web service which allows organizations to manage users and user permissions for various AWS services. If the account owner wants to create a policy for RDS, the owner has to create an IAM user and define the policy which entitles the IAM user with various RDS services such as Launch Instance, Manage security group, Manage parameter group etc.

**NEW QUESTION 185**

- (Topic 3)

Your organization is preparing for a security assessment of your use of AWS.

In preparation for this assessment, which two IAM best practices should you consider implementing? Choose 2 answers

- A. Create individual IAM users for everyone in your organization
- B. Configure MFA on the root account and for privileged IAM users
- C. Assign IAM users and groups configured with policies granting least privilege access
- D. Ensure all users have been assigned and are frequently rotating a password, access ID/secret key, and X.509 certificate

**Answer:** BC

**Explanation:**

Reference:  
<http://docs.aws.amazon.com/AmazonS3/latest/dev/example-bucket-policies.html>

**NEW QUESTION 187**

- (Topic 3)

An organization has setup multiple IAM users. The organization wants that each IAM user accesses the IAM console only within the organization and not from outside. How can it achieve this?

- A. Create an IAM policy with the security group and use that security group for AWS console login
- B. Create an IAM policy with a condition which denies access when the IP address range is not from the organization
- C. Configure the EC2 instance security group which allows traffic only from the organization's IP range
- D. Create an IAM policy with VPC and allow a secure gateway between the organization and AWS Console

**Answer:** B

**Explanation:**

AWS Identity and Access Management is a web service which allows organizations to manage users and user permissions for various AWS services. The user can add conditions as a part of the IAM policies. The condition can be set on AWS Tags, Time, and Client IP as well as on many other parameters. If the organization wants the user to access only from a specific IP range, they should set an IAM policy condition which denies access when the IP is not in a certain range. E.g. The sample policy given below denies all traffic when the IP is not in a certain range.

```
"Statement": [{
  "Effect": "Deny",
  "Action": "*",
  "Resource": "*",
  "Condition": {
    "NotIpAddress": {
      "aws:SourceIp": ["10.10.10.0/24", "20.20.30.0/24"]
    }
  }
}]
```

**NEW QUESTION 190**

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