

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 been asked to leverage Amazon VPC, EC2 and SQS to implement an application that submits and receives millions of messages per second to a message queue. You want to ensure your application has sufficient bandwidth between your EC2 instances and SQS Which option will provide the most scalable solution for communicating between the application and SQS?

- A. Ensure the application instances are properly configured with an Elastic Load Balancer
- B. Ensure the application instances are launched in private subnets with the EBS-optimized option enabled
- C. Ensure the application instances are launched in public subnets with the `associate-public-IP-address=true` option enabled
- D. Launch application instances in private subnets with an Auto Scaling group and Auto Scaling triggers configured to watch the SQS queue size

Answer: B

Explanation:

Reference:

<http://www.cardinalpath.com/autoscaling-your-website-with-amazon-web-services-part-2/>

NEW QUESTION 5

- (Topic 1)

You are designing a system that has a Bastion host. This component needs to be highly available without human intervention.

Which of the following approaches would you select?

- A. Run the bastion on two instances one in each AZ
- B. Run the bastion on an active Instance in one AZ and have an AMI ready to boot up in the event of failure
- C. Configure the bastion instance in an Auto Scaling group Specify the Auto Scaling group to include multiple AZs but have a min-size of 1 and max-size of 1
- D. Configure an ELB in front of the bastion instance

Answer: C

NEW QUESTION 6

- (Topic 1)

Your entire AWS infrastructure lives inside of one Amazon VPC. You have an Infrastructure monitoring application running on an Amazon instance in Availability Zone (AZ) A of the region, and another application instance running in AZ B. The monitoring application needs to make use of ICMP ping to confirm network reachability of the instance hosting the application.

Can you configure the security groups for these instances to only allow the ICMP ping to pass from the monitoring instance to the application instance and nothing else? If so, how?

- A. No. Two instances in two different AZ's can't talk directly to each other via ICMP ping as that protocol is not allowed across subnet (i.e. broadcast) boundaries.
- B. Yes. Both the monitoring instance and the application instance have to be a part of the same security group, and that security group needs to allow inbound ICMP.
- C. Yes, The security group for the monitoring instance needs to allow outbound ICMP and the application instance's security group needs to allow Inbound ICMP.
- D. Yes, Both the monitoring instance's security group and the application instance's security group need to allow both inbound and outbound ICMP ping packets since ICMP is not a connection-oriented protocol.

Answer: D

NEW QUESTION 7

- (Topic 1)

You are running a web-application on AWS consisting of the following components: an Elastic Load Balancer (ELB), an Auto-Scaling Group of EC2 instances running Linux/PHP/Apache, and Relational Database Service (RDS) MySQL.

Which security measures fall into AWS's responsibility?

- A. Protect the EC2 instances against unsolicited access by enforcing the principle of least-privilege access.
- B. Protect against IP spoofing or packet sniffing.
- C. Assure all communication between EC2 instances and ELB is encrypted.
- D. Install latest security patches on EL.
- E. RDS and EC2 instances.

Answer: B

NEW QUESTION 8

- (Topic 1)

When assessing an organization's use of AWS API access credentials, which of the following three credentials should be evaluated? Choose 3 answers.

- A. Key pairs
- B. Console passwords
- C. Access keys
- D. Signing certificates
- E. Security Group memberships

Answer: ACD

Explanation:

Reference:

http://media.amazonwebservices.com/AWS_Operational_Checklists.pdf

NEW QUESTION 9

- (Topic 1)

You have a web application leveraging an Elastic Load Balancer (ELB) in front of the web servers deployed using an Auto Scaling Group. Your database is running on Relational

Database Service (RDS). The application serves out technical articles and responses to them. In general, there are more views of an article than there are responses to the article. On occasion, an article on the site becomes extremely popular, resulting in significant traffic increases that cause the site to go down.

What could you do to help alleviate the pressure on the infrastructure while maintaining availability during these events?

Choose 3 answers.

- A. Leverage CloudFront for the delivery of the article.
- B. Add RDS read-replicas for the read traffic going to your relational database.
- C. Leverage ElastiCache for caching the most frequently used data.
- D. Use SQS to queue up the requests for the technical posts and deliver them out of the queue.
- E. Use Route53 health checks to fail over to an S3 bucket for an error page.

Answer: ACE

NEW QUESTION 10

- (Topic 1)

You are tasked with the migration of a highly trafficked Node.js application to AWS. In order to comply with organizational standards, Chef recipes must be used to configure the application servers that host this application and to support application lifecycle events.

Which deployment option meets these requirements while minimizing administrative burden?

- A. Create a new stack within OpsWorks, add the appropriate layers to the stack, and deploy the application.
- B. Create a new application within Elastic Beanstalk and deploy this application to a new environment.
- C. Launch a Node.js server from a community AMI and manually deploy the application to the launched EC2 instance.
- D. Launch and configure Chef Server on an EC2 instance and leverage the AWS CLI to launch application servers and configure those instances using Chef.

Answer: B

Explanation:

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

NEW QUESTION 10

- (Topic 1)

You are currently hosting multiple applications in a VPC and have logged numerous port scans coming in from a specific IP address block. Your security team has requested that all access from the offending IP address block be denied for the next 24 hours.

Which of the following is the best method to quickly and temporarily deny access from the specified IP address block?

- A. Create an AD policy to modify Windows Firewall settings on all hosts in the VPC to deny access from the IP address block
- B. Modify the Network ACLs associated with all public subnets in the VPC to deny access from the IP address block
- C. Add a rule to all of the VPC 5 Security Groups to deny access from the IP address block
- D. Modify the Windows Firewall settings on all Amazon Machine Images (AMIs) that your organization uses in that VPC to deny access from the IP address block

Answer: B

Explanation:

Reference:
http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_SecurityGroups.html

NEW QUESTION 14

- (Topic 1)

Which of the following requires a custom CloudWatch metric to monitor?

- A. Data transfer of an EC2 instance
- B. Disk usage activity of an EC2 instance
- C. Memory Utilization of an EC2 instance
- D. CPU Utilization of an EC2 instance

Answer: C

Explanation:

Reference:
<http://aws.amazon.com/cloudwatch/>

NEW QUESTION 17

- (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 will no longer be accessible
- B. Data is automatically saved in an EBS volume
- C. Data is automatically saved as an EBS snapshot
- D. Data is unavailable until the instance is restarted

Answer: D

NEW QUESTION 18

- (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 LDAP 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 application?

- A. Create a second, independent LDAP 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 23

- (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 28

- (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 33

- (Topic 1)

You have identified network throughput as a bottleneck on your m1.small EC2 instance when uploading data into Amazon S3 in the same region. How do you remedy this situation?

- A. Add an additional ENI
- B. Change to a larger instance
- C. Use DirectConnect between EC2 and S3
- D. Use EBS PIOPS on the local volume

Answer: B

Explanation:

Reference:
https://media.amazonwebservices.com/AWS_Amazon_EMR_Best_Practices.pdf

NEW QUESTION 38

- (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 39

- (Topic 1)

Which services allow the customer to retain full administrative privileges of the underlying EC2 instances? Choose 2 answers.

- A. Amazon Elastic Map Reduce
- B. Elastic Load Balancing
- C. AWS Elastic Beanstalk
- D. Amazon ElastiCache
- E. Amazon Relational Database service

Answer: AC

NEW QUESTION 42

- (Topic 1)

You have been asked to propose a multi-region deployment of a web-facing application where a controlled portion of your traffic is being processed by an alternate region.

Which configuration would achieve that goal?

- A. Route53 record sets with weighted routing policy
- B. Route53 record sets with latency based routing policy
- C. Auto Scaling with scheduled scaling actions set
- D. Elastic Load Balancing with health checks enabled

Answer: D

Explanation:

Reference:

<http://docs.aws.amazon.com/ElasticLoadBalancing/latest/DeveloperGuide/TerminologyandKeyConcepts.html>

NEW QUESTION 43

- (Topic 1)

An organization has configured a VPC with an Internet Gateway (IGW). pairs of public and private subnets (each with one subnet per Availability Zone), and an Elastic Load Balancer (ELB) configured to use the public subnets The application s web tier leverages the ELB. Auto Scaling and a mum-AZ RDS database instance The organization would like to eliminate any potential single points ft failure in this design. What step should you take to achieve this organization's objective?

- A. Nothing, there are no single points of failure in this architectur
- B. Create and attach a second IGW to provide redundant internet connectivit
- C. Create and configure a second Elastic Load Balancer to provide a redundant load balance
- D. Create a second multi-AZ RDS instance in another Availability Zone and configure replication to provide a redundant databas

Answer: A

NEW QUESTION 44

- (Topic 2)

A user has created a VPC with CIDR 20.0.0.0/16 with only a private subnet and VPN connection using the VPC wizard. The user wants to connect to the instance in a private subnet over SSH. How should the user define the security rule for SSH?

- A. Allow Inbound traffic on port 22 from the user's network
- B. The user has to create an instance in EC2 Classic with an elastic IP and configure the security group of a private subnet to allow SSH from that elastic IP
- C. The user can connect to a instance in a private subnet using the NAT instance
- D. Allow Inbound traffic on port 80 and 22 to allow the user to connect to a private subnet over the Internet

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, the user can setup a case with a VPN only subnet (private. which uses VPN access to connect with his data centre. When the user has configured this setup with Wizard, all network connections to the instances in the subnet will come from his data centre. The user has to configure the security group of the private subnet which allows the inbound traffic on SSH (port 22. from the data centre's network range.

NEW QUESTION 48

- (Topic 2)

A user has created an ELB with the availability zone US-East-1A. The user wants to add more zones to ELB to achieve High Availability. How can the user add more zones to the existing ELB?

- A. It is not possible to add more zones to the existing ELB
- B. The only option is to launch instances in different zones and add to ELB
- C. The user should stop the ELB and add zones and instances as required
- D. The user can add zones on the fly from the AWS console

Answer: D

Explanation:

The user has created an Elastic Load Balancer with the availability zone and wants to add more zones to the existing ELB. The user can do so in two ways:
From the console or CLI, add new zones to ELB;
Launch instances in a separate AZ and add instances to the existing ELB.

NEW QUESTION 53

- (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 58

- (Topic 2)

A sys admin is maintaining an application on AWS. The application is installed on EC2 and user has configured ELB and Auto Scaling. Considering future load increase, the user is planning to launch new servers proactively so that they get registered with ELB. How can the user add these instances with Auto Scaling?

- A. Increase the desired capacity of the Auto Scaling group
- B. Increase the maximum limit of the Auto Scaling group
- C. Launch an instance manually and register it with ELB on the fly
- D. Decrease the minimum limit of the Auto Scaling group

Answer: A

Explanation:

A user can increase the desired capacity of the Auto Scaling group and Auto Scaling will launch a new instance as per the new capacity. The newly launched instances will be registered with ELB if Auto Scaling group is configured with ELB. If the user decreases the minimum size the instances will be removed from Auto Scaling. Increasing the maximum size will not add instances but only set the maximum instance cap.

NEW QUESTION 63

- (Topic 2)

An organization has created 5 IAM users. The organization wants to give them the same login ID but different passwords. How can the organization achieve this?

- A. The organization should create a separate login ID but give the IAM users the same alias so that each one can login with their alias
- B. The organization should create each user in a separate region so that they have their own URL to login
- C. It is not possible to have the same login ID for multiple IAM users of the same account
- D. The organization should create various groups and add each user with the same login ID to different group
- E. The user can login with their own group ID

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. Whenever the organization is creating an IAM user, there should be a unique ID for each user. It is not possible to have the same login ID for multiple users. The names of users, groups, roles, instance profiles must be alphanumeric, including the following common characters: plus (+), equal (=), comma (,), period (.), at (@), and dash (-).

NEW QUESTION 64

- (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 66

- (Topic 2)

A sys admin has created the below mentioned policy and applied to an S3 object named aws.jpg. The aws.jpg is inside a bucket named cloudacademy. What does this policy define?

```
"Statement": [{
  "Sid": "Stmt1388811069831",
  "Effect": "Allow",
  "Principal": { "AWS": "*" },
  "Action": [ "s3:GetObjectAcl", "s3:ListBucket", "s3:GetObject" ],
  "Resource": [ "arn:aws:s3:::cloudacademy/*.*.jpg" ]
}]
```

- A. It is not possible to define a policy at the object level

- B. It will make all the objects of the bucket cloudacademy as public
- C. It will make the bucket cloudacademy as public
- D. the aws.jpg object as public

Answer: A

Explanation:

A system admin can grant permission to the S3 objects or buckets to any user or make objects public using the bucket policy and user policy. Both use the JSON-based access policy language. Generally if the user is defining the ACL on the bucket, the objects in the bucket do not inherit it and vice a versa. The bucket policy can be defined at the bucket level which allows the objects as well as the bucket to be public with a single policy applied to that bucket. It cannot be applied at the object level.

NEW QUESTION 70

- (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 75

- (Topic 2)

An organization is planning to use AWS for 5 different departments. The finance department is responsible to pay for all the accounts. However, they want the cost separation for each account to map with the right cost centre. How can the finance department achieve this?

- A. Create 5 separate accounts and make them a part of one consolidate billing
- B. Create 5 separate accounts and use the IAM cross account access with the roles for better management
- C. Create 5 separate IAM users and set a different policy for their access
- D. Create 5 separate IAM groups and add users as per the department's employees

Answer: A

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.

NEW QUESTION 77

- (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 79

- (Topic 2)

A user is checking the CloudWatch metrics from the AWS console. The user notices that the CloudWatch data is coming in UTC. The user wants to convert the data to a local time zone. How can the user perform this?

- A. In the CloudWatch dashboard the user should set the local timezone so that CloudWatch shows the data only in the local time zone
- B. In the CloudWatch console select the local timezone under the Time Range tab to view the data as per the local timezone
- C. The CloudWatch data is always in UTC; the user has to manually convert the data
- D. The user should have send the local timezone while uploading the data so that CloudWatch will show the data only in the local timezone

Answer: B

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 because the time range tab allows the user to change the time zone.

NEW QUESTION 84

- (Topic 2)

A customer is using AWS for Dev and Test. The customer wants to setup the Dev environment with Cloudformation. Which of the below mentioned steps are not required while using Cloudformation?

- A. Create a stack
- B. Configure a service
- C. Create and upload the template
- D. Provide the parameters configured as part of the template

Answer: B

Explanation:

AWS Cloudformation is an application management tool which provides application modelling, deployment, configuration, management and related activities. AWS CloudFormation introduces two concepts: the template and the stack. The template is a JSON-format, text-based file that describes all the AWS resources required to deploy and run an application. The stack is a collection of AWS resources which are created and managed as a single unit when AWS CloudFormation instantiates a template. While creating a stack, the user uploads the template and provides the data for the parameters if required.

NEW QUESTION 85

- (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 86

- (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 87

- (Topic 2)

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

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

Answer: B

Explanation:

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

NEW QUESTION 91

- (Topic 2)

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

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

Answer: C

Explanation:

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

NEW QUESTION 94

- (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 96

- (Topic 2)

A user is trying to setup a recurring Auto Scaling process. The user has setup one process to scale up every day at 8 am and scale down at 7 PM. The user is trying to setup another recurring process which scales up on the 1st of every month at 8 AM and scales down the same day at 7 PM. What will Auto Scaling do in this scenario?

- A. Auto Scaling will execute both processes but will add just one instance on the 1st
- B. Auto Scaling will add two instances on the 1st of the month
- C. Auto Scaling will schedule both the processes but execute only one process randomly
- D. Auto Scaling will throw an error since there is a conflict in the schedule of two separate Auto Scaling Processes

Answer: D

Explanation:

Auto Scaling based on a schedule allows the user to scale the application in response to predictable load changes. The user can also configure the recurring schedule action which will follow the Linux cron format. As per Auto Scaling, a scheduled action must have a unique time value. If the user attempts to schedule an activity at a time when another existing activity is already scheduled, the call will be rejected with an error message noting the conflict.

NEW QUESTION 100

- (Topic 2)

An organization has created 50 IAM users. The organization wants that each user can change their password but cannot change their access keys. How can the organization achieve this?

- A. The organization has to create a special password policy and attach it to each user
- B. The root account owner has to use CLI which forces each IAM user to change their password on first login
- C. By default each IAM user can modify their passwords
- D. The root account owner can set the policy from the IAM console under the password policy screen

Answer: D

Explanation:

With AWS IAM, organizations can use the AWS Management Console to display, create, change or delete a password policy. As a part of managing the password policy, the user can enable all users to manage their own passwords. If the user has selected the option which allows the IAM users to modify their password, he does not need to set a separate policy for the users. This option in the AWS console allows changing only the password.

NEW QUESTION 102

- (Topic 2)

A user is trying to delete an Auto Scaling group from CLI. Which of the below mentioned steps are to be performed by the user?

- A. Terminate the instances with the ec2-terminate-instance command
- B. Terminate the Auto Scaling instances with the as-terminate-instance command
- C. Set the minimum size and desired capacity to 0
- D. There is no need to change the capacity
- E. Run the as-delete-group command and it will reset all values to 0

Answer: C

Explanation:

If the user wants to delete the Auto Scaling group, the user should manually set the values of the minimum and desired capacity to 0. Otherwise Auto Scaling will not allow for the deletion of the group from CLI. While trying from the AWS console, the user need not set the values to 0 as the Auto Scaling console will automatically do so.

NEW QUESTION 103

- (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 106

- (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 107

- (Topic 2)

A user is trying to understand AWS SNS. To which of the below mentioned end points is SNS unable to send a notification?

- A. Email JSON
- B. HTTP
- C. AWS SQS
- D. AWS SES

Answer: D

Explanation:

Amazon Simple Notification Service (Amazon SNS) is a fast, flexible, and fully managed push messaging service. 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 select one of the following transports as part of the subscription requests: “HTTP”, “HTTPS”, “Email”, “Email-JSON”, “SQS”, and “SMS”.

NEW QUESTION 108

- (Topic 2)

A user has configured a VPC with a new subnet. The user has created a security group. The user wants to configure that instances of the same subnet communicate with each other. How can the user configure this with the security group?

- A. There is no need for a security group modification as all the instances can communicate with each other inside the same subnet
- B. Configure the subnet as the source in the security group and allow traffic on all the protocols and ports
- C. Configure the security group itself as the source and allow traffic on all the protocols and ports
- D. The user has to use VPC peering to configure this

Answer: C

Explanation:

A Virtual Private Cloud (VPC) is a virtual network dedicated to the user's AWS account. AWS provides two features that the user can use to increase security in VPC: security groups and network ACLs. Security groups work at the instance level. If the user is using the default security group it will have a rule which allows the instances to communicate with other. For a new security group the user has to specify the rule, add it to define the source as the security group itself, and select all the protocols and ports for that source.

NEW QUESTION 109

- (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 111

- (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 114

- (Topic 3)

A sys admin has enabled logging on ELB. Which of the below mentioned fields will not be a part of the log file name?

- A. Load Balancer IP
- B. EC2 instance IP
- C. S3 bucket name
- D. Random string

Answer: B

Explanation:

Elastic Load Balancing access logs capture detailed information for all the requests made to the load balancer. Elastic Load Balancing publishes a log file from each load balancer node at the interval that the user has specified. The load balancer can deliver multiple logs for the same period. Elastic Load Balancing creates log file names in the following format: "{Bucket}/{Prefix}/AWSLogs/{AWS AccountID}/elasticloadbalancing/{Region}/{Year}/{Month}/{Day}/{AWS Account ID}_elasticloadbalancing_{Region}_{Load Balancer Name}_{End Time}_{Load Balancer IP}_{Random String}.log"

NEW QUESTION 117

- (Topic 3)

A user is trying to connect to a running EC2 instance using SSH. However, the user gets an Unprotected Private Key File error. Which of the below mentioned options can be a possible reason for rejection?

- A. The private key file has the wrong file permission
- B. The ppk file used for SSH is read only
- C. The public key file has the wrong permission
- D. The user has provided the wrong user name for the OS login

Answer: A

Explanation:

While doing SSH to an EC2 instance, if you get an Unprotected Private Key File error it means that the private key file's permissions on your computer are too open. Ideally the private key should have the Unix permission of 0400. To fix that, run the command: `chmod 0400 /path/to/private.key`

NEW QUESTION 122

- (Topic 3)

A user has launched 5 instances in EC2-CLASSIC and attached 5 elastic IPs to the five different instances in the US East region. The user is creating a VPC in the same region. The user wants to assign an elastic IP to the VPC instance. How can the user achieve this?

- A. The user has to request AWS to increase the number of elastic IPs associated with the account
- B. AWS allows 10 EC2 Classic IPs per region; so it will allow to allocate new Elastic IPs to the same region
- C. The AWS will not allow to create a new elastic IP in VPC; it will throw an error
- D. The user can allocate a new IP address in VPC as it has a different limit than EC2

Answer: D

Explanation:

Section: (none)

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. A user can have 5 IP addresses per region with EC2 Classic. The user can have 5 separate IPs with VPC in the same region as it has a separate limit than EC2 Classic.

NEW QUESTION 125

- (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 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 127

- (Topic 3)

Which method can be used to prevent an IP address block from accessing public objects in an S3 bucket?

- A. Create a bucket policy and apply it to the bucket
- B. Create a NACL and attach it to the VPC of the bucket
- C. Create an ACL and apply it to all objects in the bucket
- D. Modify the IAM policies of any users that would access the bucket

Answer: A

Explanation:

Reference:

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

NEW QUESTION 128

- (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 130

- (Topic 3)

An organization has configured Auto Scaling with ELB. One of the instance health check 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 133

- (Topic 3)

A user has created a public subnet with VPC and launched an EC2 instance within it. The user is trying to delete the subnet. What will happen in this scenario?

- A. It will delete the subnet and make the EC2 instance as a part of the default subnet
- B. It will not allow the user to delete the subnet until the instances are terminated
- C. It will delete the subnet as well as terminate the instances
- D. The subnet can never be deleted independently, but the user has to delete the VPC first

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.

NEW QUESTION 134

- (Topic 3)

How can an EBS volume that is currently attached to an EC2 instance be migrated from one Availability Zone to another?

- A. Simply create a new volume in the other AZ and specify the original volume as the source
- B. Detach the volume, then use the `ec2-migrate-volume` command to move it to another AZ
- C. Create a snapshot of the volume, and create a new volume from the snapshot in the other AZ
- D. Detach the volume and attach it to another EC2 instance in the other AZ

Answer: D

Explanation:

Reference:

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

NEW QUESTION 135

- (Topic 3)

A user is observing the EC2 CPU utilization metric on CloudWatch. The user has observed some interesting patterns while filtering over the 1 week period for a particular hour. The user wants to zoom that data point to a more granular period. How can the user do that easily with CloudWatch?

- A. The user can zoom a particular period by selecting that period with the mouse and then releasing the mouse
- B. The user can zoom a particular period by double clicking on that period with the mouse
- C. The user can zoom a particular period by specifying the aggregation data for that period
- D. The user can zoom a particular period by specifying the period in the Time Range

Answer: A

NEW QUESTION 137

- (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 139

- (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 143

- (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 148

- (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 I/Os 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 150

- (Topic 3)

A user has created an EBS volume of 10 GB and attached it to a running instance. The user is trying to access EBS for the first time. Which of the below mentioned options is the correct statement with respect to a first time EBS access?

- A. The volume will show a size of 8 GB
- B. The volume will show a loss of the IOPS performance the first time
- C. The volume will be blank
- D. If the EBS is mounted it will ask the user to create a file system

Answer: B

Explanation:

A user can create an EBS volume either from a snapshot or as a blank volume. If the volume is from a snapshot it will not be blank. The volume shows the right size only as long as it is mounted. This shows that the file system is created. When the user is accessing the volume the AWS EBS will wipe out the block storage or instantiate from the snapshot. Thus, the volume will show a loss of IOPS. It is recommended that the user should pre-warm the EBS before use to achieve better I/O.

NEW QUESTION 153

- (Topic 3)

Your business is building a new application that will store its entire customer database on a RDS MySQL database, and will have various applications and users that will query that data for different purposes.

Large analytics jobs on the database are likely to cause other applications to not be able to get the query results they need to, before time out. Also, as your data grows, these analytics jobs will start to take more time, increasing the negative effect on the other applications.

How do you solve the contention issues between these different workloads on the same data?

- A. Enable Multi-AZ mode on the RDS instance
- B. Use ElastiCache to offload the analytics job data
- C. Create RDS Read-Replicas for the analytics work
- D. Run the RDS instance on the largest size possible

Answer: B

NEW QUESTION 154

- (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 158

- (Topic 3)

An organization (account ID 123412341234. has configured the IAM policy to allow the user to modify his credentials. What will the below mentioned statement allow the user to perform?

```
{
  "Version": "2012-10-17",
  "Statement": [{
    "Effect": "Allow",
    "Action": [
      "iam:AddUserToGroup",
      "iam:RemoveUserFromGroup",
      "iam:GetGroup"
    ],
    "Resource": "arn:aws:iam:: 123412341234:group/TestingGroup"
  }]
}
```

- A. The IAM policy will throw an error due to an invalid resource name
- B. The IAM policy will allow the user to subscribe to any IAM group
- C. Allow the IAM user to update the membership of the group called TestingGroup
- D. Allow the IAM user to delete the TestingGroup

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 organization (account ID 123412341234. wants their users to manage their subscription to the groups, they should create a relevant policy for that. The below mentioned policy allows the respective IAM user to update the membership of the group called MarketingGroup.

```
{
  "Version": "2012-10-17",
  "Statement": [{
    "Effect": "Allow",
    "Action": [
      "iam:AddUserToGroup",
      "iam:RemoveUserFromGroup",
      "iam:GetGroup"
    ],
    "Resource": "arn:aws:iam:: 123412341234:group/ TestingGroup "
  }]
}
```

NEW QUESTION 160

- (Topic 3)

An application you maintain consists of multiple EC2 instances in a default tenancy VPC. This application has undergone an internal audit and has been determined to require dedicated hardware for one instance. Your compliance team has given you a week to move this instance to single-tenant hardware. Which process will have minimal impact on your application while complying with this requirement?

- A. Create a new VPC with tenancy=dedicated and migrate to the new VPC
- B. Use ec2-reboot-instances command line and set the parameter "dedicated=true"

- C. Right click on the instance, select properties and check the box for dedicated tenancy
- D. Stop the instance, create an AMI, launch a new instance with tenancy=dedicated, and terminate the old instance

Answer: A

Explanation:

Reference:

<http://docs.aws.amazon.com/AWSEC2/latest/CommandLineReference/ApiReference-cmd-CreateVpc.html>

NEW QUESTION 164

- (Topic 3)

A user has created a VPC with the public subnet. The user has created a security group for that VPC. Which of the below mentioned statements is true when a security group is created?

- A. It can connect to the AWS services, such as S3 and RDS by default
- B. It will have all the inbound traffic by default
- C. It will have all the outbound traffic by default
- D. It will by default allow traffic to the internet gateway

Answer: C

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 while ACLs work at the subnet level. When a user creates a security group with AWS VPC, by default it will allow all the outbound traffic but block all inbound traffic.

NEW QUESTION 165

- (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 168

- (Topic 3)

An organization has launched 5 instances: 2 for production and 3 for testing. The organization wants that one particular group of IAM users should only access the test instances and not the production ones. How can the organization set that as a part of the policy?

- A. Launch the test and production instances in separate regions and allow region wise access to the group
- B. Define the IAM policy which allows access based on the instance ID
- C. Create an IAM policy with a condition which allows access to only small instances
- D. Define the tags on the test and production servers and add a condition to the IAM policy which allows access to specific tags

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. 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 various parameters. If the organization wants the user to access only specific instances he should define proper tags and add to the IAM policy condition.

The sample policy is shown below.

```
"Statement": [  
  {  
    "Action": "ec2:*",  
    "Effect": "Allow",  
    "Resource": "*",  
    "Condition": {  
      "StringEquals": {  
        "ec2:ResourceTag/InstanceType": "Production"  
      }  
    }  
  }  
]
```

NEW QUESTION 171

- (Topic 3)

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 credentials is not required while creating the AMI?

- A. AWS account ID
- B. X.509 certificate and private key
- C. AWS login ID to login to the console
- D. Access key and secret access key

Answer: C

Explanation:

When the user has launched an EC2 instance from an instance store backed AMI and the admin team wants to create an AMI from it, the user needs to setup the AWS AMI or the API tools first. Once the tool is setup the user will need the following credentials:

AWS account ID;
AWS access and secret access key;
X.509 certificate with private key.

NEW QUESTION 176

- (Topic 3)

A user has created a mobile application which makes calls to DynamoDB to fetch certain data. The application is using the DynamoDB SDK and root account access/secret access key to connect to DynamoDB from mobile. Which of the below mentioned statements is true with respect to the best practice for security in this scenario?

- A. The user should create a separate IAM user for each mobile application and provide DynamoDB access with it
- B. The user should create an IAM role with DynamoDB and EC2 acces
- C. Attach the role with EC2 and route all calls from the mobile through EC2
- D. The application should use an IAM role with web identity federation which validates calls to DynamoDB with identity providers, such as Google, Amazon, and Facebook
- E. Create an IAM Role with DynamoDB access and attach it with the mobile application

Answer: C

Explanation:

With AWS IAM a user is creating an application which runs on an EC2 instance and makes requests to AWS, such as DynamoDB or S3 calls. Here it is recommended that the user should not create an IAM user and pass the user's credentials to the application or embed those credentials inside the application. If the user is creating an app that runs on a mobile phone and makes requests to AWS, the user should not create an IAMuser and distribute the user's access key with the app. Instead, he should use an identity provider, such as Login with Amazon, Facebook, or Google to authenticate the users, and then use that identity to get temporary security credentials.

NEW QUESTION 180

- (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 182

- (Topic 3)

A user has created a Cloudformation stack. The stack creates AWS services, such as EC2 instances, ELB, AutoScaling, and RDS. While creating the stack it created EC2, ELB and AutoScaling but failed to create RDS. What will Cloudformation do in this scenario?

- A. Cloudformation can never throw an error after launching a few services since it verifies all the steps before launching
- B. It will warn the user about the error and ask the user to manually create RDS
- C. Rollback all the changes and terminate all the created services
- D. It will wait for the user's input about the error and correct the mistake after the input

Answer: C

Explanation:

AWS Cloudformation is an application management tool which provides application modelling, deployment, configuration, management and related activities. The AWS Cloudformation stack is a collection of AWS resources which are created and managed as a single unit when AWS CloudFormation instantiates a template. If any of the services fails Amazon AWS-SysOps : Practice Test

to launch, Cloudformation will rollback all the changes and terminate or delete all the created services.

NEW QUESTION 184

- (Topic 3)

A user has configured an HTTPS listener on an ELB. The user has not configured any security policy which can help to negotiate SSL between the client and ELB. What will ELB do in this scenario?

- A. By default ELB will select the first version of the security policy
- B. By default ELB will select the latest version of the policy
- C. ELB creation will fail without a security policy
- D. It is not required to have a security policy since SSL is already installed

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. If the user has created an HTTPS/SSL listener without associating any security policy, Elastic Load Balancing will, by default, associate the latest version of the ELBSecurityPolicy-YYYY-MM with the load balancer.

NEW QUESTION 185

- (Topic 3)

A user runs the command “dd if=/dev/xvdf of=/dev/null bs=1M” on an EBS volume created from a snapshot and attached to a Linux instance. Which of the below mentioned activities is the user performing with the step given above?

- A. Pre warming the EBS volume
- B. Initiating the device to mount on the EBS volume
- C. Formatting the volume
- D. Copying the data from a snapshot to the device

Answer: A

Explanation:

When the user creates an 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 volume created from a snapshot and attached with a Linux OS, the “dd” command pre warms the existing data on EBS and any restored snapshots of volumes that have been previously fully pre warmed. This command maintains incremental snapshots; however, because this operation is read-only, it does not pre warm unused space that has never been written to on the original volume. In the command “dd if=/dev/xvdf of=/dev/null bs=1M”, the parameter “if=input file” should be set to the drive that the user wishes to warm. The “of=output file” parameter should be set to the Linux null virtual device, /dev/null. The “bs” parameter sets the block size of the read operation; for optimal performance, this should be set to 1 MB.

NEW QUESTION 188

- (Topic 3)

A user has launched an EC2 Windows instance from an instance store backed AMI. The user has also set the Instance initiated shutdown behavior to stop. What will happen when the user shuts down the OS?

- A. It will not allow the user to shutdown the OS when the shutdown behaviour is set to Stop
- B. It is not possible to set the termination behaviour to Stop for an Instance store backed AMI instance
- C. The instance will stay running but the OS will be shutdown
- D. The instance will be terminated

Answer: B

Explanation:

When the EC2 instance is launched from an instance store backed AMI, it will not allow the user to configure the shutdown behaviour to “Stop”. It gives a warning that the instance does not have the EBS root volume.

NEW QUESTION 189

- (Topic 3)

A user has created a VPC with public and private subnets using the VPC Wizard. The VPC has CIDR 20.0.0.0/16. The private subnet uses CIDR 20.0.0.0/24. Which of the below mentioned entries are required in the main route table to allow the instances in VPC to communicate with each other?

- A. Destination : 20.0.0.0/24 and Target : VPC
- B. Destination : 20.0.0.0/16 and Target : ALL
- C. Destination : 20.0.0.0/0 and Target : ALL
- D. Destination : 20.0.0.0/24 and Target : Local

Answer: D

NEW QUESTION 193

- (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 194

- (Topic 3)

A user has created a VPC with two subnets: one public and one private. The user is planning to run the patch update for the instances in the private subnet. How can the instances in the private subnet connect to the internet?

- A. Use the internet gateway with a private IP
- B. Allow outbound traffic in the security group for port 80 to allow internet updates
- C. The private subnet can never connect to the internet
- D. Use NAT with an elastic IP

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. If the user has created two subnets (one private and one public), he would need a Network Address Translation (NAT) instance with the elastic IP address. This enables the instances in the private subnet to send requests to the internet (for example, to perform software updates..

NEW QUESTION 195

- (Topic 3)

A user has launched multiple EC2 instances for the purpose of development and testing in the same region. The user wants to find the separate cost for the production and development instances. How can the user find the cost distribution?

- A. The user should download the activity report of the EC2 services as it has the instance ID wise data
- B. It is not possible to get the AWS cost usage data of single region instances separately
- C. The user should use Cost Distribution Metadata and AWS detailed billing
- D. The user should use Cost Allocation Tags and AWS billing reports

Answer: D

Explanation:

AWS provides cost allocation tags to categorize and track the AWS costs. When the user applies tags to his AWS resources (such as Amazon EC2 instances or Amazon S3 buckets), AWS generates a cost allocation report as a comma-separated value (CSV) file with the usage and costs aggregated by those tags. The user can apply tags which represent business categories (such as cost centres, application names, or instance type – Production/Dev. to organize usage costs across multiple services.

NEW QUESTION 200

- (Topic 3)

An organization is trying to create various IAM users. Which of the below mentioned options is not a valid IAM username?

- A. John.cloud
- B. john@cloud
- C. John=cloud
- D. john#cloud

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. Whenever the organization is creating an IAM user, there should be a unique ID for each user. The names of users, groups, roles, instance profiles must be alphanumeric, including the following common characters: plus (+), equal (=), comma (,), period (.), at (@), and dash (-).

NEW QUESTION 202

- (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 206

- (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 AML is missin
- 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 207

- (Topic 3)

A user is configuring the Multi AZ feature of an RDS DB. The user came to know that this RDS DB does not use the AWS technology, but uses server mirroring to achieve HA. Which DB is the user using right now?

- A. My SQL
- B. Oracle
- C. MS SQL
- D. PostgreSQL

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. Multi AZ deployments for Oracle, PostgreSQL, and MySQL DB instances use Amazon technology, while SQL Server (MS SQL. DB instances use SQL Server Mirroring.

NEW QUESTION 212

- (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 213

- (Topic 3)

A user is using a small MySQL RDS DB. The user is experiencing high latency due to the Multi AZ feature. Which of the below mentioned options may not help the user in this situation?

- A. Schedule the automated back up in non-working hours
- B. Use a large or higher size instance
- C. Use PIOPS
- D. Take a snapshot from standby Replica

Answer: D

Explanation:

An RDS DB instance which has enabled Multi AZ deployments may experience increased write and commit latency compared to a Single AZ deployment, due to synchronous data replication. The user may also face changes in latency if deployment fails over to the standby replica. For production workloads, AWS recommends the user to use provisioned IOPS and DB instance classes (m1.large and larger. as they are optimized for provisioned IOPS to give a fast, and consistent performance. With Multi AZ feature, the user can not have option to take snapshot from replica.

NEW QUESTION 218

- (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 220

- (Topic 3)

A user has enabled termination protection on an EC2 instance. The user has also set Instance initiated shutdown behaviour to terminate. When the user shuts down the instance from the OS, what will happen?

- A. The OS will shutdown but the instance will not be terminated due to protection
- B. It will terminate the instance
- C. It will not allow the user to shutdown the instance from the OS
- D. It is not possible to set the termination protection when an Instance initiated shutdown is set to Terminate

Answer: B

Explanation:

It is always possible that someone can terminate an EC2 instance using the Amazon EC2 console, command line interface or API by mistake. If the admin wants to prevent the instance from being accidentally terminated, he can enable termination protection for that instance. The user can also setup shutdown behaviour for an EBS backed instance to guide the instance on what should be done when he initiates shutdown from the OS using Instance initiated shutdown behaviour. If the instance initiated behaviour is set to terminate and the user shuts off the OS even though termination protection is enabled, it will still terminate the instance.

NEW QUESTION 224

- (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 228

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 232

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