

AWS-Certified-Solutions-Architect-Professional Dumps

Amazon AWS Certified Solutions Architect Professional

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NEW QUESTION 1

By default, Amazon Cognito maintains the last-written version of the data. You can override this behavior and resolve data conflicts programmatically. In addition, push synchronization allows you to use Amazon Cognito to send a silent notification to all devices associated with an identity to notify them that new data is available.

- A. get
- B. post
- C. pull
- D. push

Answer: D

Explanation:

By default, Amazon Cognito maintains the last-written version of the data. You can override this behavior and resolve data conflicts programmatically. In addition, push synchronization allows you to use Amazon Cognito to send a silent push notification to all devices associated with an identity to notify them that new data is available.

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

NEW QUESTION 2

An organization is planning to extend their data center by connecting their DC with the AWS VPC using the VPN gateway. The organization is setting up a dynamically routed VPN connection. Which of the below mentioned answers is not required to setup this configuration?

- A. The type of customer gateway, such as Cisco ASA, Juniper J-Series, Juniper SSG, Yamaha.
- B. Elastic IP ranges that the organization wants to advertise over the VPN connection to the VPC.
- C. Internet-routable IP address (static) of the customer gateway's external interface.
- D. Border Gateway Protocol (BGP) Autonomous System Number (ASN) of the customer gateway

Answer: B

Explanation:

The Amazon Virtual Private Cloud (Amazon VPC) allows the user to define a virtual networking environment in a private, isolated section of the Amazon Web Services (AWS) cloud. The user has complete control over the virtual networking environment. The organization wants to extend their network into the cloud and also directly access the internet from their AWS VPC. Thus, the organization should setup a Virtual Private Cloud (VPC) with a public subnet and a private subnet, and a virtual private gateway to enable communication with their data center network over an IPsec VPN tunnel. To setup this configuration the organization needs to use the Amazon VPC with a VPN connection. The organization network administrator must designate a physical appliance as a customer gateway and configure it. The organization would need the below mentioned information to setup this configuration:

The type of customer gateway, such as Cisco ASA, Juniper J-Series, Juniper SSG, Yamaha Internet-routable IP address (static) of the customer gateway's external interface

Border Gateway Protocol (BGP) Autonomous System Number (ASN) of the customer gateway, if the organization is creating a dynamically routed VPN connection.

Internal network IP ranges that the user wants to advertise over the VPN connection to the VPC. Reference:

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

NEW QUESTION 3

An organization is setting a website on the AWS VPC. The organization has blocked a few IPs to avoid a D-DOS attack. How can the organization configure that a request from the above mentioned IPs does not access the application instances?

- A. Create an IAM policy for VPC which has a condition to disallow traffic from that IP address.
- B. Configure a security group at the subnet level which denies traffic from the selected IP.
- C. Configure the security group with the EC2 instance which denies access from that IP address.
- D. Configure an ACL at the subnet which denies the traffic from that IP address

Answer: D

Explanation:

A Virtual Private Cloud (VPC) is a virtual network dedicated to the user's AWS account. It enables the user to launch AWS resources into a virtual network that the user has defined. AWS provides two features that the user can use to increase security in VPC: security groups and network ACLs. Security group works at the instance level while ACL works at the subnet level. ACL allows both allow and deny rules.

Thus, when the user wants to reject traffic from the selected IPs it is recommended to use ACL with subnets.

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

NEW QUESTION 4

An organization has 4 people in the IT operations team who are responsible to manage the AWS infrastructure. The organization wants to setup that each user will have access to launch and manage an instance in a zone which the other user cannot modify. Which of the below mentioned options is the best solution to set this up?

- A. Create four AWS accounts and give each user access to a separate account.
- B. Create an IAM user and allow them permission to launch an instance of a different sizes only.
- C. Create four IAM users and four VPCs and allow each IAM user to have access to separate VPCs.
- D. Create a VPC with four subnets and allow access to each subnet for the individual IAM user

Answer: D

Explanation:

A Virtual Private Cloud (VPC) is a virtual network dedicated to the user's AWS account. The user can create subnets as per the requirement within a VPC. The VPC also work with IAM and the organization can create IAM users who have access to various VPC services. The organization can setup access for the IAM user who can modify the security groups of the VPC. The sample policy is given below:

```
{
```

```
"Version": "2012-10-17",  
"Statement":  
[  
  {  
    "Effect": "Allow",  
    "Action": "ec2:RunInstances",  
    "Resource":  
    [ "arn:aws:ec2:region::image/ami-*", "arn:aws:ec2:region:account:subnet/subnet-1a2b3c4d", "arn:aws:ec2:region:account:network-interface/*",  
      "arn:aws:ec2:region:account:volume/*", "arn:aws:ec2:region:account:key-pair/*", "arn:aws:ec2:region:account:security-group/sg-123abc123" ]  
  }  
]
```

With this policy the user can create four subnets in separate zones and provide IAM user access to each subnet
Reference: http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_IAM.html

NEW QUESTION 5

While implementing the policy keys in AWS Direct Connect, if you use and the request comes from an Amazon EC2 instance, the instance's public IP address is evaluated to determine if access is allowed.

- A. aws:SecureTransport
- B. aws:EpochIP
- C. aws:SourceIp
- D. aws:CurrentTime

Answer: C

Explanation:

While implementing the policy keys in Amazon RDS, if you use aws:SourceIp and the request comes from an Amazon EC2 instance, the instance's public IP address is evaluated to determine if access is allowed. Reference: http://docs.aws.amazon.com/directconnect/latest/UserGuide/using_iam.html

NEW QUESTION 6

A user has created a MySQL RDS instance with PIOPS. Which of the below mentioned statements will help user understand the advantage of PIOPS?

- A. The user can achieve additional dedicated capacity for the EBS I/O with an enhanced RDS option
- B. It uses a standard EBS volume with optimized configuration the stacks
- C. It uses optimized EBS volumes and optimized configuration stacks
- D. It provides a dedicated network bandwidth between EBS and RDS

Answer: C

Explanation:

RDS DB instance storage comes in two types: standard and provisioned IOPS. Standard storage is allocated on the Amazon EBS volumes and connected to the user's DB instance. Provisioned IOPS uses optimized EBS volumes and an optimized configuration stack. It provides additional, dedicated capacity for the EBS I/O. Reference: <http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Welcome.html>

NEW QUESTION 7

When does an AWS Data Pipeline terminate the AWS Data Pipeline-managed compute resources?

- A. AWS Data Pipeline terminates AWS Data Pipeline-managed compute resources every 2 hours.
- B. When the final activity that uses the resources is running
- C. AWS Data Pipeline terminates AWS Data Pipeline-managed compute resources every 12 hours.
- D. When the final activity that uses the resources has completed successfully or failed

Answer: D

Explanation:

Compute resources will be provisioned by AWS Data Pipeline when the first activity for a scheduled time that uses those resources is ready to run, and those instances will be terminated when the final activity that uses the resources has completed successfully or failed. Reference: <https://aws.amazon.com/datapipeline/faqs/>

NEW QUESTION 8

An organization is hosting a scalable web application using AWS. The organization has configured ELB and Auto Scaling to make the application scalable. Which of the below mentioned statements is not required to be followed for ELB when the application is planning to host a web application on VPC?

- A. The ELB and all the instances should be in the same subnet.
- B. Configure the security group rules and network ACLs to allow traffic to be routed between the subnets in the VPC.
- C. The internet facing ELB should have a route table associated with the internet gateway.
- D. The internet facing ELB should be only in a public subnet

Answer: A

Explanation:

Amazon Virtual Private Cloud (Amazon VPC) allows the user to define a virtual networking environment in a private, isolated section of the Amazon Web Services (AWS) cloud. The user has complete control over the virtual networking environment. Within this virtual private cloud, the user can launch AWS resources, such as an ELB, and EC2 instances. There are two ELBs available with VPC: internet facing and internal (private) ELB. For the internet facing ELB it is required that the ELB should be in a public subnet. After the user creates the public subnet, he should ensure to associate the route table of the public subnet with the internet gateway to enable the load balancer in the subnet to connect with the internet. The ELB and instances can be in a separate subnet. However, to allow communication between the instance and the ELB the user must configure the security group rules and network ACLs to allow traffic to be routed between the subnets in his VPC. Reference: <http://docs.aws.amazon.com/ElasticLoadBalancing/latest/DeveloperGuide/CreateVPCForELB.html>

NEW QUESTION 9

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

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 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 "
```

Reference:

<http://docs.aws.amazon.com/IAM/latest/UserGuide/Credentials-Permissions-examples.htm#creds-policies-credentials>

NEW QUESTION 10

You want to define permissions for a role in an IAM policy. Which of the following configuration formats should you use?

- A. An XML document written in the IAM Policy Language
- B. An XML document written in a language of your choice
- C. A JSON document written in the IAM Policy Language
- D. A JSON document written in a language of your choice

Answer: C

Explanation:

You define the permissions for a role in an IAM policy. An IAM policy is a JSON document written in the IAM Policy Language.

Reference: http://docs.aws.amazon.com/IAM/latest/UserGuide/id_roles_terms-and-concepts.html

NEW QUESTION 10

An organization is setting up a backup and restore system in AWS of their in premise system. The organization needs High Availability(HA) and Disaster Recovery(DR) but is okay to have a longer recovery time to save costs. Which of the below mentioned setup options helps achieve the objective of cost saving as well as DR in the most effective way?

- A. Setup pre- configured servers and create AMIs.. Use EIP and Route 53 to quickly switch over to AWS from in premise.
- B. Setup the backup data on S3 and transfer data to S3 regularly using the storage gateway.
- C. Setup a small instance with AutoScaling; in case of DR start diverting all the load to AWS from on premise.
- D. Replicate on premise DB to EC2 at regular intervals and setup a scenario similar to the pilot light

Answer: B

Explanation:

AWS has many solutions for Disaster Recovery(DR) and High Availability(HA). When the organization wants to have HA and DR but are okay to have a longer recovery time they should select the option backup and restore with S3. The data can be sent to S3 using either Direct Connect, Storage Gateway or over the internet.

The EC2 instance will pick the data from the S3 bucket when started and setup the environment. This process takes longer but is very cost effective due to the low pricing of S3. In all the other options, the EC2 instance might be running or there will be AMI storage costs.

Thus, it will be a costlier option. In this scenario the organization should plan appropriate tools to take a backup, plan the retention policy for data and setup security of the data.

Reference: http://d36cz9buwru1tt.cloudfront.net/AWS_Disaster_Recovery.pdf

NEW QUESTION 15

In Amazon VPC, what is the default maximum number of BGP advertised routes allowed per route table?

- A. 15
- B. 100
- C. 5
- D. 10

Answer: B

Explanation:

The maximum number of BGP advertised routes allowed per route table is 100.

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

NEW QUESTION 20

What is the maximum length for an instance profile name in AWS IAM?

- A. 512 characters
- B. 128 characters
- C. 1024 characters
- D. 64 characters

Answer: B

Explanation:

The maximum length for an instance profile name is 128 characters.

Reference: <http://docs.aws.amazon.com/IAM/latest/UserGuide/LimitationsOnEntities.html>

NEW QUESTION 23

Which statement is NOT true about a stack which has been created in a Virtual Private Cloud (VPC) in AWS OpsWorks?

- A. Subnets whose instances cannot communicate with the Internet are referred to as public subnets.
- B. Subnets whose instances can communicate only with other instances in the VPC and cannot communicate directly with the Internet are referred to as private subnets.
- C. All instances in the stack should have access to any package repositories that your operating system depends on, such as the Amazon Linux or Ubuntu Linux repositories.
- D. Your app and custom cookbook repositories should be accessible for all instances in the stack.

Answer: A

Explanation:

In AWS OpsWorks, you can control user access to a stack's instances by creating it in a virtual private cloud (VPC). For example, you might not want users to have direct access to your stack's app servers or databases and instead require that all public traffic be channeled through an Elastic Load Balancer.

A VPC consists of one or more subnets, each of which contains one or more instances. Each subnet has an associated routing table that directs outbound traffic based on its destination IP address.

Instances within a VPC can generally communicate with each other, regardless of their subnet. Subnets whose instances can communicate with the Internet are referred to as public subnets. Subnets whose instances can communicate only with other instances in the VPC and cannot communicate directly with the Internet are referred to as private subnets.

AWS OpsWorks requires the VPC to be configured so that every instance in the stack, including instances in private subnets, has access to the following endpoints:

The AWS OpsWorks service, <https://opsworks-instance-service.us-east-1.amazonaws.com>. Amazon S3

The package repositories for Amazon Linux or Ubuntu 12.04 LTS, depending on which operating system you specify.

Your app and custom cookbook repositories. Reference:

<http://docs.aws.amazon.com/opsworks/latest/userguide/workingstacks-vpc.html#workingstacks-vpc-basics>

NEW QUESTION 27

With Amazon Elastic MapReduce (Amazon EMR) you can analyze and process vast amounts of data. The cluster is managed using an open-source framework called Hadoop.

You have set up an application to run Hadoop jobs. The application reads data from DynamoDB and generates a temporary file of 100 TBs.

The whole process runs for 30 minutes and the output of the job is stored to S3. Which of the below mentioned options is the most cost effective solution in this case?

- A. Use Spot Instances to run Hadoop jobs and configure them with EBS volumes for persistent data storage.
- B. Use Spot Instances to run Hadoop jobs and configure them with ephemeral storage for output file storage.
- C. Use an on demand instance to run Hadoop jobs and configure them with EBS volumes for persistent storage.
- D. Use an on demand instance to run Hadoop jobs and configure them with ephemeral storage for output file storage.

Answer: B

Explanation:

AWS EC2 Spot Instances allow the user to quote his own price for the EC2 computing capacity. The user can simply bid on the spare Amazon EC2 instances and run them whenever his bid exceeds the current Spot Price. The Spot Instance pricing model complements the On-Demand and Reserved Instance pricing models, providing potentially the most cost-effective option for obtaining compute capacity, depending on the application. The only challenge with a Spot Instance is data persistence as the instance can be terminated whenever the spot price exceeds the bid price.

In the current scenario a Hadoop job is a temporary job and does not run for a longer period. It fetches data from a persistent DynamoDB. Thus, even if the instance gets terminated there will be no data loss and the job can be re-run. As the output files are large temporary files, it will be useful to store data on ephemeral storage for cost savings.

Reference: <http://aws.amazon.com/ec2/purchasing-options/spot-instances/>

NEW QUESTION 30

An organization is setting up a highly scalable application using Elastic Beanstalk. They are using Elastic Load Balancing (ELB) as well as a Virtual Private Cloud (VPC) with public and private subnets. They have the following requirements:

- . All the EC2 instances should have a private IP
- . All the EC2 instances should receive data via the ELB's. Which of these will not be needed in this setup?

- A. Launch the EC2 instances with only the public subnet.
- B. Create routing rules which will route all inbound traffic from ELB to the EC2 instances.
- C. Configure ELB and NAT as a part of the public subnet only.
- D. Create routing rules which will route all outbound traffic from the EC2 instances through NAT

Answer: A

Explanation:

The Amazon Virtual Private Cloud (Amazon VPC) allows the user to define a virtual networking environment in a private, isolated section of the Amazon Web Services (AWS) cloud. The user has complete control over the virtual networking environment. If the organization wants the Amazon EC2 instances to have a private IP address, he should create a public and private subnet for VPC in each Availability Zone (this is an AWS Elastic Beanstalk requirement). The organization should add their public resources, such as ELB and NAT to the public subnet, and AWS Elastic Beanstalk will assign them unique elastic IP addresses (a static, public IP address). The organization should launch Amazon EC2 instances in a private subnet so that AWS Elastic Beanstalk assigns them non-routable private IP addresses. Now the organization should configure route tables with the following rules:

- . route all inbound traffic from ELB to EC2 instances
- . route all outbound traffic from EC2 instances through NAT

Reference: <http://docs.aws.amazon.com/elasticbeanstalk/latest/dg/AWSHowTo-vpc.html>

NEW QUESTION 35

A user is thinking to use EBS PIOPS volume. Which of the below mentioned options is a right use case for the PIOPS EBS volume?

- A. Analytics
- B. System boot volume
- C. Nlongo DB
- D. Log processing

Answer: C

Explanation:

Provisioned IOPS volumes are designed to meet the needs of I/O-intensive workloads, particularly database workloads that are sensitive to storage performance and consistency in random access I/O throughput. Provisioned IOPS volumes are designed to meet the needs of I/O-intensive workloads, particularly database workloads, that are sensitive to storage performance and consistency in random access I/O throughput business applications, database workloads, such as NoSQL DB, RDBMS, etc. Reference: <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSVolumeTypes.html>

NEW QUESTION 36

Attempts, one of the three types of items associated with the schedule pipeline in the AWS Data Pipeline, provides robust data management. Which of the following statements is NOT true about Attempts?

- A. Attempts provide robust data management.
- B. AWS Data Pipeline retries a failed operation until the count of retries reaches the maximum number of allowed retry attempts.
- C. An AWS Data Pipeline Attempt object compiles the pipeline components to create a set of actionable instances.
- D. AWS Data Pipeline Attempt objects track the various attempts, results, and failure reasons if applicable.

Answer: C

Explanation:

Attempts, one of the three types of items associated with a schedule pipeline in AWS Data Pipeline, provides robust data management. AWS Data Pipeline retries a failed operation. It continues to do so until the task reaches the maximum number of allowed retry attempts. Attempt objects track the various attempts, results, and failure reasons if applicable. Essentially, it is the instance with a counter. AWS Data Pipeline performs retries using the same resources from the previous attempts, such as Amazon EMR clusters and EC2 instances.

Reference:

<http://docs.aws.amazon.com/datapipeline/latest/DeveloperGuide/dp-how-tasks-scheduled.html>

NEW QUESTION 38

Within an IAM policy, can you add an IfExists condition at the end of a Null condition?

- A. Yes, you can add an IfExists condition at the end of a Null condition but not in all Regions.
- B. Yes, you can add an IfExists condition at the end of a Null condition depending on the condition.
- C. No, you cannot add an IfExists condition at the end of a Null condition.
- D. Yes, you can add an IfExists condition at the end of a Null condition.

Answer: C

Explanation:

Within an IAM policy, IfExists can be added to the end of any condition operator except the Null condition. It can be used to indicate that conditional comparison needs to happen if the policy key is present in the context of a request; otherwise, it can be ignored.

Reference: http://docs.aws.amazon.com/IAM/latest/UserGuide/reference_policies_elements.html

NEW QUESTION 43

IAM users do not have permission to create Temporary Security Credentials for federated users and roles by default. In contrast, IAM users can call without the need of any special permissions

- A. GetSessionName
- B. GetFederationToken
- C. GetSessionToken
- D. GetFederationName

Answer: C

Explanation:

Currently the STS API command GetSessionToken is available to every IAM user in your account without previous permission. In contrast, the GetFederationToken command is restricted and explicit permissions need to be granted so a user can issue calls to this particular Action

Reference: <http://docs.aws.amazon.com/STS/latest/UsingSTS/STSPermission.html>

NEW QUESTION 44

An organization has developed an application which provides a smarter shopping experience. They need to show a demonstration to various stakeholders who may not be able to access the in premise application so they decide to host a demo version of the application on AWS. Consequently they will need a fixed elastic IP attached automatically to the instance when it is launched.

In this scenario which of the below mentioned options will not help assign the elastic IP automatically?

- A. Write a script which will fetch the instance metadata on system boot and assign the public IP using that metadata.
- B. Provide an elastic IP in the user data and setup a bootstrapping script which will fetch that elastic IP and assign it to the instance.
- C. Create a controlling application which launches the instance and assigns the elastic IP based on the parameter provided when that instance is booted.
- D. Launch instance with VPC and assign an elastic IP to the primary network interface

Answer: A

Explanation:

EC2 allows the user to launch On-Demand instances. If the organization is using an application temporarily only for demo purposes the best way to assign an elastic IP would be:

Launch an instance with a VPC and assign an EIP to the primary network interface. This way on every instance start it will have the same IP Create a bootstrapping script and provide it some metadata, such as user data which can be used to assign an EIP Create a controller instance which can schedule the start and stop of the instance and provide an EIP as a parameter so that the controller instance can check the instance boot and assign an EIP The instance metadata gives the current instance data, such as the public/private IP. It can be of no use for assigning an EIP.

Reference: <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AESDG-chapter-instancedata.html>

NEW QUESTION 48

An organization is having a VPC for the HR department, and another VPC for the Admin department. The HR department requires access to all the instances running in the Admin VPC while the Admin department requires access to all the resources in the HR department. How can the organization setup this scenario?

- A. Setup VPC peering between the VPCs of Admin and HR.
- B. Setup ACL with both VPCs which will allow traffic from the CIDR of the other VPC.
- C. Setup the security group with each VPC which allows traffic from the CIDR of another VPC.
- D. It is not possible to connect resources of one VPC from another VPC.

Answer: A

Explanation:

A Virtual Private Cloud (VPC) is a virtual network dedicated to the user's AWS account. It enables the user to launch AWS resources into a virtual network that the user has defined. A VPC peering connection allows the user to route traffic between the peer VPCs using private IP addresses as if they are a part of the same network.

This is helpful when one VPC from the same or different AWS account wants to connect with resources of the other VPC.

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

NEW QUESTION 52

Identify a true statement about using an IAM role to grant permissions to applications running on Amazon EC2 instances.

- A. When AWS credentials are rotated, developers have to update only the root Amazon EC2 instance that uses their credentials.
- B. When AWS credentials are rotated, developers have to update only the Amazon EC2 instance on which the password policy was applied and which uses their credentials.
- C. When AWS credentials are rotated, you don't have to manage credentials and you don't have to worry about long-term security risks.
- D. When AWS credentials are rotated, you must manage credentials and you should consider precautions for long-term security risks.

Answer: C

Explanation:

Using IAM roles to grant permissions to applications that run on EC2 instances requires a bit of extra configuration. Because role credentials are temporary and rotated automatically, you don't have to manage credentials, and you don't have to worry about long-term security risks.

Reference: <http://docs.aws.amazon.com/IAM/latest/UserGuide/role-usecase-ec2app.html>

NEW QUESTION 54

Which of following IAM policy elements lets you specify an exception to a list of actions?

- A. NotException
- B. ExceptionAction
- C. Exception
- D. NotAction

Answer: D

Explanation:

The NotAction element lets you specify an exception to a list of actions. Reference:

http://docs.aws.amazon.com/IAM/latest/UserGuide/AccessPolicyLanguage_ElementDescriptions.html

NEW QUESTION 59

Once the user has set ElastiCache for an application and it is up and running, which services, does Amazon not provide for the user:

- A. The ability for client programs to automatically identify all of the nodes in a cache cluster, and to initiate and maintain connections to all of these nodes
- B. Automating common administrative tasks such as failure detection and recovery, and software patching
- C. Providing default Time To Live (TTL) in the AWS ElastiCache Redis Implementation for different type of data.
- D. Providing detailed monitoring metrics associated with your Cache Nodes, enabling you to diagnose and react to issues very quickly

Answer: C

Explanation:

Amazon provides failure detection and recovery, and software patching and monitoring tools which is called CloudWatch. In addition it provides also Auto Discovery to automatically identify and initialize all nodes of cache cluster for Amazon ElastiCache.
Reference: <http://docs.aws.amazon.com/AmazonElastiCache/latest/UserGuide/WhatIs.html>

NEW QUESTION 64

In the context of AWS Cloud Hardware Security Module(HSM), does your application need to reside in the same VPC as the CloudHSM instance?

- A. No, but the server or instance on which your application and the HSM client is running must have network (IP) reachability to the HSM.
- B. Yes, always
- C. No, but they must reside in the same Availability Zone.
- D. No, but it should reside in same Availability Zone as the DB instance

Answer: A

Explanation:

Your application does not need to reside in the same VPC as the CloudHSM instance.
However, the server or instance on which your application and the HSM client is running must have network (IP) reachability to the HSM. You can establish network connectivity in a variety of ways, including operating your application in the same VPC, with VPC peering, with a VPN connection, or with Direct Connect.
Reference: <https://aws.amazon.com/cloudhsm/faqs/>

NEW QUESTION 67

Who is responsible for modifying the routing tables and networking ACLs in a VPC to ensure that a DB instance is reachable from other instances in the VPC?

- A. AWS administrators
- B. The owner of the AWS account
- C. Amazon
- D. The DB engine vendor

Answer: B

Explanation:

You are in charge of configuring the routing tables of your VPC as well as the network ACLs rules needed to make your DB instances accessible from all the instances of your VPC that need to communicate with it.
Reference: <http://aws.amazon.com/rds/faqs/>

NEW QUESTION 69

A user is creating a Provisioned IOPS volume. What is the maximum ratio the user should configure between Provisioned IOPS and the volume size?

- A. 5
- B. 10
- C. 20
- D. 30

Answer: D

Explanation:

Provisioned IOPS volumes are designed to meet the needs of I/O-intensive workloads, particularly database workloads that are sensitive to storage performance and consistency in random access I/O throughput. A provisioned IOPS 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 can be a maximum of 30; for example, a volume with 3000 IOPS must be at least 100 GB.
Reference: <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSVolumeTypes.html>

NEW QUESTION 73

A government client needs you to set up secure cryptographic key storage for some of their extremely confidential data. You decide that the AWS CloudHSM is the best service for this. However, there seem to be a few pre-requisites before this can happen, one of those being a security group that has certain ports open. Which of the following is correct in regards to those security groups?

- A. A security group that has no ports open to your network.
- B. A security group that has only port 3389 (for RDP) open to your network.
- C. A security group that has only port 22 (for SSH) open to your network.
- D. A security group that has port 22 (for SSH) or port 3389 (for RDP) open to your network

Answer: D

Explanation:

AWS CloudHSM provides secure cryptographic key storage to customers by making hardware security modules (HSMs) available in the AWS cloud. AWS CloudHSM requires the following environment before an HSM appliance can be provisioned. A virtual private cloud (VPC) in the region where you want the AWS CloudHSM service.
One private subnet (a subnet with no Internet gateway) in the VPC. The HSM appliance is provisioned into this subnet.
One public subnet (a subnet with an Internet gateway attached). The control instances are attached to this subnet.
An AWS Identity and Access Management (IAM) role that delegates access to your AWS resources to AWS CloudHSM.
An EC2 instance, in the same VPC as the HSM appliance, that has the SafeNet client software installed. This instance is referred to as the control instance and is used to connect to and manage the HSM appliance.
A security group that has port 22 (for SSH) or port 3389 (for RDP) open to your network. This security group is attached to your control instances so you can access them remotely.

NEW QUESTION 76

You want to use Amazon Redshift and you are planning to deploy dw1.8xlarge nodes. What is the minimum amount of nodes that you need to deploy with this kind of configuration?

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

Answer: D

Explanation:

For a single-node configuration in Amazon Redshift, the only option available is the smallest of the two options. The 8XL extra-large nodes are only available in a multi-node configuration

Reference: <http://docs.aws.amazon.com/redshift/latest/mgmt/working-with-clusters.html>

NEW QUESTION 79

Which of the following components of AWS Data Pipeline polls for tasks and then performs those tasks?

- A. Pipeline Definition
- B. Task Runner
- C. Amazon Elastic MapReduce (EMR)
- D. AWS Direct Connect

Answer: B

Explanation:

Task Runner polls for tasks and then performs those tasks.

Reference: <http://docs.aws.amazon.com/datapipeline/latest/DeveloperGuide/what-is-datapipeline.html>

NEW QUESTION 81

Which of the following statements is correct about AWS Direct Connect?

- A. Connections to AWS Direct Connect require double clad fiber for 1 gigabit Ethernet with Auto Negotiation enabled for the port.
- B. An AWS Direct Connect location provides access to Amazon Web Services in the region it is associated with.
- C. AWS Direct Connect links your internal network to an AWS Direct Connect location over a standard 50 gigabit Ethernet cable.
- D. To use AWS Direct Connect, your network must be colocated with a new AWS Direct Connect location

Answer: B

Explanation:

AWS Direct Connect links your internal network to an AWS Direct Connect location over a standard 1 gigabit or 10 gigabit Ethernet fiber-optic cable. An AWS Direct Connect location provides access to Amazon Web Services in the region it is associated with, as well as access to other US regions. To use AWS Direct Connect, your network is colocated with an existing AWS Direct Connect location. Connections to AWS Direct Connect require single mode fiber, 1000BASE-LX (1310nm) for 1 gigabit Ethernet, or 10GBASE-LR (1310nm) for 10 gigabit Ethernet. Auto Negotiation for the port must be disabled.

Reference: <http://docs.aws.amazon.com/directconnect/latest/UserGuide/Welcome.html>

NEW QUESTION 83

An organization is hosting a scalable web application using AWS. The organization has configured internet facing ELB and Auto Scaling to make the application scalable. Which of the below mentioned statements is required to be followed when the application is planning to host a web application on VPC?

- A. The ELB can be in a public or a private subnet but should have the ENI which is attached to an elastic IP.
- B. The ELB must not be in any subnet; instead it should face the internet directly.
- C. The ELB must be in a public subnet of the VPC to face the internet traffic.
- D. The ELB can be in a public or a private subnet but must have routing tables attached to divert the internet traffic to it.

Answer: C

Explanation:

The Amazon Virtual Private Cloud (Amazon VPC) allows the user to define a virtual networking environment in a private, isolated section of the Amazon Web Services (AWS) cloud. The user has complete control over the virtual networking environment. Within this virtual private cloud, the user can launch AWS resources, such as an ELB, and EC2 instances. There are two ELBs available with VPC: internet facing and internal (private) ELB. For internet facing ELB it is required that ELB should be in a public subnet.

After the user creates the public subnet, he should ensure to associate the route table of the public subnet with the internet gateway to enable the load balancer in the subnet to connect with the internet. Reference: <http://docs.aws.amazon.com/ElasticLoadBalancing/latest/DeveloperGuide/CreateVPCForELB.html>

NEW QUESTION 88

You're running an application on-premises due to its dependency on non-x86 hardware and want to use AWS for data backup. Your backup application is only able to write to POSIX-compatible block-based storage. You have 140TB of data and would like to mount it as a single folder on your file server. Users must be able to access portions of this data while the backups are taking place. What backup solution would be most appropriate for this use case?

- A. Use Storage Gateway and configure it to use Gateway Cached volumes.
- B. Configure your backup software to use S3 as the target for your data backups.
- C. Configure your backup software to use Glacier as the target for your data backups.
- D. Use Storage Gateway and configure it to use Gateway Stored volume

Answer:

A

NEW QUESTION 91

You are tasked with moving a legacy application from a virtual machine running inside your datacenter to an Amazon VPC. Unfortunately, this app requires access to a number of on-premises services and no one who configured the app still works for your company. Even worse, there's no documentation for it. What will allow the application running inside the VPC to reach back and access its internal dependencies without being reconfigured? (Choose 3 answers)

- A. An AWS Direct Connect link between the VPC and the network housing the internal services.
- B. An Internet Gateway to allow a VPN connection.
- C. An Elastic IP address on the VPC instance
- D. An IP address space that does not conflict with the one on-premises
- E. Entries in Amazon Route 53 that allow the Instance to resolve its dependencies' IP addresses
- F. A VM Import of the current virtual machine

Answer: ADF**NEW QUESTION 95**

Your company has HQ in Tokyo and branch offices all over the world and is using a logistics software with a multi-regional deployment on AWS in Japan, Europe, and US.

- A. The logistic software has a 3-tier architecture and currently uses MySQL 5.6 for data persistence.
- B. Each region has deployed its own database. In the HQ region, you run an hourly batch process reading data from every region to compute cross-regional reports that are sent by email to all offices. This batch process must be completed as fast as possible to quickly optimize logistics. How do you build the database architecture in order to meet the requirements?
- C. For each regional deployment, use RDS MySQL with a master in the region and a read replica in the HQ region.
- D. For each regional deployment, use MySQL on EC2 with a master in the region and send hourly EBS snapshots to the HQ region.
- E. For each regional deployment, use RDS MySQL with a master in the region and send hourly RDS snapshots to the HQ region.
- F. For each regional deployment, use MySQL on EC2 with a master in the region and use S3 to copy data files hourly to the HQ region.
- G. Use Direct Connect to connect all regional MySQL deployments to the HQ region and reduce network latency for the batch process.

Answer: A**NEW QUESTION 99**

You would like to create a mirror image of your production environment in another region for disaster recovery purposes. Which of the following AWS resources do not need to be recreated in the second region? (Choose 2 answers)

- A. Route 53 Record Sets
- B. IAM Roles
- C. Elastic IP Addresses (EIP)
- D. EC2 Key Pairs
- E. Launch configurations
- F. Security Groups

Answer: AC**NEW QUESTION 102**

A customer has a 10 GB AWS Direct Connect connection to an AWS region where they have a web application hosted on Amazon Elastic Compute Cloud (EC2). The application has dependencies on an on-premises mainframe database that uses a BASE (Basic Available, Sort stale Eventual consistency) rather than an ACID (Atomicity, Consistency isolation, Durability) consistency model. The application is exhibiting undesirable behavior because the database is not able to handle the volume of writes. How can you reduce the load on your on-premises database resources in the most cost-effective way?

- A. Use an Amazon Elastic Map Reduce (EMR) S3DistCp as a synchronization mechanism between the on-premises database and a Hadoop cluster on AWS.
- B. Modify the application to write to an Amazon SQS queue and develop a worker process to flush the queue to the on-premises database.
- C. Modify the application to use DynamoDB to feed an EMR cluster which uses a map function to write to the on-premises database.
- D. Provision an RDS read-replica database on AWS to handle the writes and synchronize the two databases using Data Pipeline.

Answer: A**NEW QUESTION 105**

You are responsible for a legacy web application whose server environment is approaching end of life. You would like to migrate this application to AWS as quickly as possible, since the application environment currently has the following limitations:

The VM's single 10GB VNIC is almost full; the virtual network interface still uses the 10Gb/s driver, which leaves your 100Mbps WAN connection completely underutilized;

It is currently running on a highly customized Windows VM within a VMware environment; You do not have installation media;

This is a mission-critical application with an RTO (Recovery Time Objective) of 8 hours, RPO (Recovery Point Objective) of 1 hour. How could you best migrate this application to AWS while meeting your business continuity requirements?

- A. Use the EC2 VM Import Connector for vCenter to import the VNI into EC2.
- B. Use Import/Export to import the VNI as an ESS snapshot and attach to EC2.
- C. Use S3 to create a backup of the VM and restore the data into EC2.
- D. Use the ec2-bundle-instance API to import an image of the VNI into EC2.

Answer: A**NEW QUESTION 106**

Your company is getting ready to do a major public announcement of a social media site on AWS. The website is running on EC2 instances deployed across

multiple Availability Zones with a Multi-AZ RDS MySQL Extra Large DB Instance. The site performs a high number of small reads and writes per second and relies on an eventual consistency model. After comprehensive tests you discover that there is read contention on RDS MySQL. Which are the best approaches to meet these requirements? (Choose 2 answers)

- A. Deploy ElastiCache in-memory cache running in each availability zone
- B. Implement sharding to distribute load to multiple RDS MySQL instances
- C. Increase the RDS MySQL Instance size and Implement provisioned IOPS
- D. Add an RDS MySQL read replica in each availability zone

Answer: AC

NEW QUESTION 108

Refer to the architecture diagram above of a batch processing solution using Simple Queue Service (SQS) to set up a message queue between EC2 instances which are used as batch processors Cloud Watch monitors the number of Job requests (queued messages) and an Auto Scaling group adds or deletes batch servers automatically based on parameters set in Cloud Watch alarms. You can use this architecture to implement which of the following features in a cost effective and efficient manner?

- A. Reduce the overall time for executing jobs through parallel processing by allowing a busy EC2 instance that receives a message to pass it to the next instance in a daisy-chain setup.
- B. Implement fault tolerance against EC2 instance failure since messages would remain in SQS and work can continue with recovery of EC2 instances implement fault tolerance against SQS failure by backing up messages to S3.
- C. Implement message passing between EC2 instances within a batch by exchanging messages through SQS.
- D. Coordinate number of EC2 instances with number of job requests automatically thus Improving cost effectiveness.
- E. Handle high priority jobs before lower priority jobs by assigning a priority metadata field to SQS messages.

Answer: D

NEW QUESTION 111

You are designing a social media site and are considering how to mitigate distributed denial-of-service (DDoS) attacks. Which of the below are viable mitigation techniques? (Choose 3 answers)

- A. Add multiple elastic network interfaces (ENIs) to each EC2 instance to increase the network bandwidth.
- B. Use dedicated instances to ensure that each instance has the maximum performance possible.
- C. Use an Amazon CloudFront distribution for both static and dynamic content.
- D. Use an Elastic Load Balancer with auto scaling groups at the web tier.
- E. App and Amazon Relational Database Service (RDS) tiers
- F. Add alert Amazon CloudWatch to look for high Network in and CPU utilization.
- G. Create processes and capabilities to quickly add and remove rules to the instance OS firewall

Answer: CEF

NEW QUESTION 113

You must architect the migration of a web application to AWS. The application consists of Linux web servers running a custom web server. You are required to save the logs generated from the application to a durable location. What options could you select to migrate the application to AWS? (Choose 2)

- A. Create an AWS Elastic Beanstalk application using the custom web server platform
- B. Specify the web server executable and the application project and source file
- C. Enable log file rotation to Amazon Simple Storage Service (S3).
- D. Create Dockerfile for the application
- E. Create an AWS OpsWorks stack consisting of a custom layer
- F. Create custom recipes to install Docker and to deploy your Docker container using the Dockerfile
- G. Create custom recipes to install and configure the application to publish the logs to Amazon CloudWatch Logs.
- H. Create Dockerfile for the application
- I. Create an AWS OpsWorks stack consisting of a Docker layer that uses the Dockerfile
- J. Create custom recipes to install and configure Amazon Kinesis to publish the logs into Amazon CloudWatch.
- K. Create a Dockerfile for the application
- L. Create an AWS Elastic Beanstalk application using the Docker platform and the Dockerfile
- M. Enable logging the Docker configuration to automatically publish the application log
- N. Enable log file rotation to Amazon S3.
- O. Use VM import/Export to import a virtual machine image of the server into AWS as an AMI
- P. Create an Amazon Elastic Compute Cloud (EC2) instance from AMI, and install and configure the Amazon CloudWatch Logs agent
- Q. Create a new AMI from the instance
- R. Create an AWS Elastic Beanstalk application using the AMI platform and the new AMI.

Answer: AD

NEW QUESTION 115

A corporate web application is deployed within an Amazon Virtual Private Cloud (VPC) and is connected to the corporate data center via an IPsec VPN. The application must authenticate against the on-premises LDAP server. After authentication, each logged-in user can only access an Amazon Simple Storage Space (S3) key space specific to that user. Which two approaches can satisfy these objectives? (Choose 2 answers)

- A. Develop an identity broker that authenticates against IAM Security Token service to assume a IAM role in order to get temporary AWS security credentials The application calls the identity broker to get AWS temporary security credentials with access to the appropriate S3 bucket.
- B. The application authenticates against LDAP and retrieves the name of an IAM role associated with the user
- C. The application then calls the IAM Security Token Service to assume that IAM role
- D. The application can use the temporary credentials to access the appropriate S3 bucket.
- E. Develop an identity broker that authenticates against LDAP and then calls IAM Security Token Service to get IAM federated user credential

- F. The application calls the identity broker to get IAM federated user credentials with access to the appropriate S3 bucket.
- G. The application authenticates against LDAP the application then calls the AWS identity and AccessManagement (IAM) Security service to log in to IAM using the LDAP credentials the application can use the IAM temporary credentials to access the appropriate S3 bucket.
- H. The application authenticates against IAM Security Token Service using the LDAP credentials the application uses those temporary AWS security credentials to access the appropriate S3 bucket.

Answer: BC

NEW QUESTION 118

Your company hosts a social media website for storing and sharing documents. The web application allows user to upload large files while resuming and pausing the upload as needed. Currently, files are uploaded to your PHP front end backed by Elastic load Balancing and an autoscaling fleet of Amazon Elastic Compute Cloud (EC2) instances that scale upon average of bytes received (NetworkIn). After a file has been uploaded, it is copied to Amazon Simple Storage Service (S3). Amazon EC2 instances use an AWS Identity and Access Management (IAM) role that allows Amazon S3 uploads. Over the last six months, your user base and scale have increased significantly, forcing you to increase the Auto Scaling group's Max parameter a few times. Your CFO is concerned about rising costs and has asked you to adjust the architecture where needed to better optimize costs.

Which architecture change could you introduce to reduce costs and still keep your web application secure and scalable?

- A. Replace the Auto Scaling launch configuration to include c3.8xlarge instances; those instances can potentially yield a network throughput of 10gbps.
- B. Re-architect your ingest pattern, have the app authenticate against your identity provider, and use your identity provider as a broker fetching temporary AWS credentials from AWS Secure Token Service (GetFederationToken). Securely pass the credentials and S3 endpoint/prefix to your ap
- C. Implement client-side logic to directly upload the file to Amazon S3 using the given credentials and S3 prefix.
- D. Re-architect your ingest pattern, and move your web application instances into a VPC public subne
- E. Attach a public IP address for each EC2 instance (using the Auto Scaling launch configuration settings). Use Amazon Route 53 Round Robin records set and HTTP health check to DNS load balance the apprequests; this approach will significantly reduce the cost by bypassing Elastic Load Balancing.
- F. Re-architect your ingest pattern, have the app authenticate against your identity provider, and use your identity provider as a broker fetching temporary AWS credentials from AWS Secure Token Service (GetFederationToken). Securely pass the credentials and S3 endpoint/prefix to your ap
- G. Implement client-side logic that used the S3 multipart upload API to directly upload the file to Amazon S3 using the given credentials and S3 prefix.

Answer: C

NEW QUESTION 122

Your company produces customer commissioned one-of-a-kind skiing helmets combining nigh fashion with custom technical enhancements Customers can show off their IndMduality on the ski slopes and have access to head-up-displays. GPS rear-view cams and any other technical innovation they wish to embed in the helmet.

The current manufacturing process is data rich and complex including assessments to ensure that the custom electronics and materials used to assemble the helmets are to the highest standards Assessments are a mixture of human and automated assessments you need to add a new set of assessment to model the failure modes of the custom electronics using GPUs with CUDA, across a cluster of servers with low latency networking.

What architecture would allow you to automate the existing process using a hybrid approach and ensure that the architecture can support the evolution of processes over time?

- A. Use AWS Data Pipeline to manage movement of data & meta-data and assessments Use an auto-scaling group of G2 instances in a placement group.
- B. Use Amazon Simple Workflow (SWF) to manages assessments, movement of data & meta-data Use an auto-scaling group of G2 instances in a placement group.
- C. Use Amazon Simple Workflow (SWF) to manages assessments movement of data & meta-data Use an auto-scaling group of C3 instances with SR-IOV (Single Root I/O Virtualization).
- D. Use AWS data Pipeline to manage movement of data & meta-data and assessments use auto-scaling group of C3 with SR-IOV (Single Root I/O virtualization).

Answer: B

NEW QUESTION 123

You are migrating a legacy client-server application to AWS. The application responds to a specific DNS domain (e.g. www.example.com) and has a 2-tier architecture, with multiple application sewers and a database sewer. Remote clients use TCP to connect to the application servers. The application servers need to know the IP address of the clients in order to function properly and are currently taking that information from the TCP socket. A Multi-AZ RDS MySQL instance will be used for the database. During the migration you can change the application code, but you have to file a change request.

How would you implement the architecture on AWS in order to maximize scalability and high availability?

- A. File a change request to implement Alias Resource support in the applicatio
- B. Use Route 53 Alias Resource Record to distribute load on two application servers in different Azs.
- C. File a change request to implement Latency Based Routing support in the applicatio
- D. Use Route 53 with Latency Based Routing enabled to distribute load on two application servers in different Azs.
- E. File a change request to implement Cross-Zone support in the applicatio
- F. Use an ELB with a TCP Listener and Cross-Zone Load Balancing enabled, two application servers in different AZs.
- G. File a change request to implement Proxy Protocol support in the applicatio
- H. Use an ELB with a TCP Listener and Proxy Protocol enabled to distribute load on two application servers in different Azs.

Answer: D

NEW QUESTION 126

You are designing a personal document-archMng solution for your global enterprise with thousands of employee. Each employee has potentially gigabytes of data to be backed up in this archMng solution. The solution will be exposed to the employees as an application, where they can just drag and drop their files to the archMng system. Employees can retrieve their archives through a web interface. The corporate network has high bandwidth AWS Direct Connect connectMty to AWS.

You have a regulatory requirement that all data needs to be encrypted before being uploaded to the cloud.

How do you implement this in a highly available and cost-efficient way?

- A. Manage encryption keys on-premises in an encrypted relational databas
- B. Set up an on-premises server with sufficient storage to temporarily store files, and then upload them to Amazon S3, providing a client-side master key.
- C. Mange encryption keys in a Hardware Security Module (HSM) appliance on-premises serve r with sufficient storage to temporarily store, encrypt, and upload files directly into Amazon Glacier.

- D. Manage encryption keys in Amazon Key Management Service (KMS), upload to Amazon Simple Storage Service (S3) with client-side encryption using a KMS customer master key ID, and configure Amazon S3 lifecycle policies to store each object using the Amazon Glacier storage tier.
- E. Manage encryption keys in an AWS CloudHSM appliance.
- F. Encrypt files prior to uploading on the employee desktop, and then upload directly into Amazon Glacier.

Answer: C

NEW QUESTION 128

A company is building a voting system for a popular TV show, viewers watch the performances then visit the show's website to vote for their favorite performer. It is expected that in a short period of time after the show has finished the site will receive millions of visitors. The visitors will first login to the site using their Amazon.com credentials and then submit their vote. After the voting is completed the page will display the vote totals. The company needs to build the site such that can handle the rapid influx of traffic while maintaining good performance but also wants to keep costs to a minimum. Which of the design patterns below should they use?

- A. Use CloudFront and an Elastic Load balancer in front of an auto-scaled set of web servers, the web servers will first call the Login With Amazon service to authenticate the user then process the users vote and store the result into a multi-AZ Relational Database Service instance.
- B. Use CloudFront and the static website hosting feature of S3 with the Javascript SDK to call the Login With Amazon service to authenticate the user, use IAM Roles to gain permissions to a DynamoDB table to store the users vote.
- C. Use CloudFront and an Elastic Load Balancer in front of an auto-scaled set of web servers, the web servers will first call the Login with Amazon service to authenticate the user, the web servers will process the users vote and store the result into a DynamoDB table using IAM Roles for EC2 instances to gain permissions to the DynamoDB table.
- D. Use CloudFront and an Elastic Load Balancer in front of an auto-scaled set of web servers, the web servers will first call the Login With Amazon service to authenticate the user, the web servers will process the users vote and store the result into an SQS queue using IAM Roles for EC2 Instances to gain permissions to the SQS queue.
- E. A set of application servers will then retrieve the items from the queue and store the result into a DynamoDB table.

Answer: D

NEW QUESTION 131

A company is running a batch analysis every hour on their main transactional DB, running on an RDS MySQL instance, to populate their central Data Warehouse running on Redshift. During the execution of the batch, their transactional applications are very slow. When the batch completes they need to update the top management dashboard with the new data. The dashboard is produced by another system running on-premises that is currently started when a manually-sent email notifies that an update is required. The on-premises system cannot be modified because it is managed by another team. How would you optimize this scenario to solve performance issues and automate the process as much as possible?

- A. Replace RDS with Redshift for the batch analysis and SNS to notify the on-premises system to update the dashboard.
- B. Replace RDS with Redshift for the batch analysis and SQS to send a message to the on-premises system to update the dashboard.
- C. Create an RDS Read Replica for the batch analysis and SNS to notify the on-premises system to update the dashboard.
- D. Create an RDS Read Replica for the batch analysis and SQS to send a message to the on-premises system to update the dashboard.

Answer: A

NEW QUESTION 135

You need a persistent and durable storage to trace call activity of an IVR (Interactive Voice Response) system. Call duration is mostly in the 2-3 minutes timeframe. Each traced call can be either active or terminated. An external application needs to know each minute the list of currently active calls. Usually there are a few calls/second, but once per month there is a periodic peak up to 1000 calls/second for a few hours. The system is open 24/7 and any downtime should be avoided. Historical data is periodically archived to files. Cost saving is a priority for this project. What database implementation would better fit this scenario, keeping costs as low as possible?

- A. Use DynamoDB with a "Calls" table and a Global Secondary Index on a "State" attribute that can equal to "active" or "terminated". In this way the Global Secondary Index can be used for all items in the table.
- B. Use RDS Multi-AZ with a "CALLS" table and an indexed "STATE" field that can be equal to "ACTIVE" or "TERMINATED". In this way the SQL query is optimized by the use of the Index.
- C. Use RDS Multi-AZ with two tables, one for "ACTIVE_CALLS" and one for "TERMINATED_CALLS". In this way the "ACTIVE_CALLS" table is always small and effective to access.
- D. Use DynamoDB with a "Calls" table and a Global Secondary Index on a "Is Active" attribute that is present for active calls only.
- E. In this way the Global Secondary Index is sparse and more effective.

Answer: C

NEW QUESTION 138

Your company hosts a social media site supporting users in multiple countries. You have been asked to provide a highly available design for the application that leverages multiple regions for the most recently accessed content and latency sensitive portions of the website. The most latency sensitive component of the application involves reading user preferences to support web site personalization and ad selection. In addition to running your application in multiple regions, which option will support this application's requirements?

- A. Serve user content from S3. CloudFront and use Route53 latency-based routing between ELBs in each region. Retrieve user preferences from a local DynamoDB table in each region and leverage SQS to capture changes to user preferences with SNS workers for propagating updates to each table.
- B. Use the S3 Copy API to copy recently accessed content to multiple regions and serve user content from S3. CloudFront with dynamic content and an ELB in each region. Retrieve user preferences from an ElasticCache cluster in each region and leverage SNS notifications to propagate user preference changes to a worker node in each region.
- C. Use the S3 Copy API to copy recently accessed content to multiple regions and serve user content from S3. CloudFront and Route53 latency-based routing between ELBs. In each region, retrieve user preferences from a DynamoDB table and leverage SQS to capture changes to user preferences with SNS workers for propagating DynamoDB updates.
- D. Serve user content from S3. CloudFront with dynamic content, and an ELB in each region. Retrieve user preferences from an ElasticCache cluster in each region and leverage Simple Workflow (SWF) to manage the propagation of user preferences from a centralized source to each ElasticCache cluster.

Answer: A

NEW QUESTION 139

You are designing a multi-platform web application for AWS. The application will run on EC2 instances and will be accessed from PCs, tablets and smart phones. Supported accessing platforms are Windows, MacOS, IOS and Android. Separate sticky session and SSL certificate setups are required for different platform types. Which of the following describes the most cost effective and performance efficient architecture setup?

- A. Setup a hybrid architecture to handle session state and SSL certificates on-prem and separate EC2 Instance groups running web applications for different platform types running in a VPC.
- B. Set up one ELB for all platforms to distribute load among multiple instances under it. Each EC2 instance implements all functionality for a particular platform.
- C. Set up two ELBs. The first ELB handles SSL certificates for all platforms and the second ELB handles session stickiness for all platforms. For each ELB run separate EC2 instance groups to handle the web application for each platform.
- D. Assign multiple ELBs to an EC2 instance or group of EC2 instances running the common components of the web application, one ELB for each platform type. Session stickiness and SSL termination are done at the ELBs.

Answer: D

NEW QUESTION 141

An administrator is using Amazon CloudFormation to deploy a three-tier web application that consists of a web tier and application tier that will utilize Amazon DynamoDB for storage. When creating the CloudFormation template, which of the following would allow the application instance access to the DynamoDB tables without exposing API credentials?

- A. Create an Identity and Access Management Role that has the required permissions to read and write from the required DynamoDB table and associate the Role to the application instances by referencing an instance profile.
- B. Use the Parameter section in the CloudFormation template to save the user input Access and Secret Keys from an already created IAM user that has the permissions required to read and write from the required DynamoDB table.
- C. Create an Identity and Access Management Role that has the required permissions to read and write from the required DynamoDB table and reference the Role in the instance profile property of the application instance.
- D. Create an Identity and Access Management user in the CloudFormation template that has permissions to read and write from the required DynamoDB table, use the GetAtt function to retrieve the Access and secret keys and pass them to the application instance through user-data.

Answer: C

NEW QUESTION 143

A web-startup runs its very successful social news application on Amazon EC2 with an Elastic Load Balancer, an Auto-Scaling group of Java/Tomcat application servers, and DynamoDB as data store. The main web-application best runs on m2.xlarge instances since it is highly memory-bound. Each new deployment requires semi-automated creation and testing of a new AMI for the application servers which takes quite a while and is therefore only done once per week. Recently, a new chat feature has been implemented in Node.js and waits to be integrated in the architecture. First tests show that the new component is CPU-bound. Because the company has some experience with using Chef, they decided to streamline the deployment process and use AWS OpsWorks as an application life cycle tool to simplify management of the application and reduce the deployment cycles. What configuration in AWS OpsWorks is necessary to integrate the new chat module in the most cost-efficient and flexible way?

- A. Create one AWS OpsWorks stack, create one AWS OpsWorks layer, create one custom recipe
- B. Create one AWS OpsWorks stack, create two AWS OpsWorks layers, create one custom recipe
- C. Create two AWS OpsWorks stacks, create two AWS OpsWorks layers, create one custom recipe
- D. Create two AWS OpsWorks stacks, create two AWS OpsWorks layers, create two custom recipes

Answer: C

NEW QUESTION 145

When you put objects in Amazon S3, what is the indication that an object was successfully stored?

- A. A HTTP 200 result code and MD5 checksum, taken together, indicate that the operation was successful.
- B. Amazon S3 is engineered for 99.999999999% durability.
- C. Therefore there is no need to confirm that data was inserted.
- D. A success code is inserted into the S3 object metadata.
- E. Each S3 account has a special bucket named _s3_log.
- F. Success codes are written to this bucket with a timestamp and checksum.

Answer: A

NEW QUESTION 146

Your company policies require encryption of sensitive data at rest. You are considering the possible options for protecting data while storing it at rest on an EBS data volume, attached to an EC2 instance. Which of these options would allow you to encrypt your data at rest? Choose 3 answers.

- A. Implement third-party volume encryption tools.
- B. Implement SSL/TLS for all services running on the server.
- C. Encrypt data inside your applications before storing it on EBS.
- D. Encrypt data using native data encryption drivers at the file system level.
- E. Do nothing as EBS volumes are encrypted by default.

Answer: ACD

NEW QUESTION 148

A customer is deploying an SSL-enabled web application to AWS and would like to implement a separation of roles between the EC2 service administrators that are entitled to login to instances as well as making API calls and the security officers who will maintain and have exclusive access to the application's X.509 certificate that contains the private key.

- A. Upload the certificate to an S3 bucket owned by the security officers and accessible only by the EC2 Role of the web servers.
- B. Configure the web servers to retrieve the certificate upon boot from a CloudHSM managed by the security officers.

- C. Configure system permissions on the web servers to restrict access to the certificate only to the authority security officers
- D. Configure IAM policies authorizing access to the certificate store only to the security officers and terminate SSL on an ELB.

Answer: D

NEW QUESTION 150

You are designing Internet connectivity for your VPC. The Web servers must be available on the Internet. The application must have a highly available architecture. Which alternatives should you consider? (Choose 2 answers)

- A. Configure a NAT instance in your VPC Create a default route via the NAT instance and associate it with all subnets Configure a DNS A record that points to the NAT instance public IP address.
- B. Configure a CloudFront distribution and configure the origin to point to the private IP addresses of your Web servers Configure a Route53 CNAME record to your CloudFront distribution.
- C. Place all your web servers behind ELB Configure a Route53 CNAME to point to the ELB DNS name.
- D. Assign EIPs to all web server
- E. Configure a Route53 record set with all EIPs, with health checks and DNS failover.
- F. Configure ELB with an EIP Place all your Web servers behind ELB Configure a Route53 A record that points to the EIP.

Answer: CD

NEW QUESTION 155

The following policy can be attached to an IAM group. It lets an IAM user in that group access a "home directory" in AWS S3 that matches their user name using the console.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Action": ["s3:*"], "Effect": "Allow",
      "Resource": ["arn:aws:s3:::zbucket-name"], "Condition":{"StringLike":{"s3:prefix":["home/${aws:username}/*"]}}
    }
  ]
}
```

- A. True
- B. False

Answer: B

NEW QUESTION 159

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