Amazon

Exam Questions AWS-Certified-Solutions-Architect-Professional

Amazon AWS Certified Solutions Architect Professional

NEW QUESTION 1
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 gatewa

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 2
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 addres

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 3
An organization is planning to host an application on the AWS VPC. The organization wants dedicated instances. However, an AWS consultant advised the organization not to use dedicated instances with VPC as the design has a few limitations. Which of the below mentioned statements is not a limitation of dedicated instances with VPC?

A. All instances launched with this VPC will always be dedicated instances and the user cannot use a default tenancy model for them.
B. It does not support the AWS RDS with a dedicated tenancy VPC.
C. The user cannot use Reserved Instances with a dedicated tenancy model.
D. The EBS volume will not be on the same tenant hardware as the EC2 instance though the user has configured dedicated tenancy.

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. Dedicated instances are Amazon EC2 instances that run in a Virtual Private Cloud (VPC) on hardware that is dedicated to a single customer. The client's dedicated instances are physically isolated at the host hardware level from instances that are not dedicated instances as well as from instances that belong to other AWS accounts.
All instances launched with the dedicated tenancy model of VPC will always be dedicated instances. Dedicated tenancy has a limitation that it may not support a few services, such as RDS. Even the EBS will not be on dedicated hardware. However the user can save some cost as well as reserve some capacity
by using a Reserved Instance model with dedicated tenancy.
Reference: http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/dedicated-instance.html

NEW QUESTION 4
You have subscribed to the AWS Business and Enterprise support plan. Your business has a backlog of problems, and you need about 20 of your IAM users to open technical support cases. How many users can open technical support cases under the AWS Business and Enterprise support plan?

A. 5 users
B. 10 users
C. Unlimited
D. 1 user

Answer: C

Explanation:
In the context of AWS support, the Business and Enterprise support plans allow an unlimited number of users to open technical support cases (supported by AWS

Identity and Access Management (IAM)). Reference: https://aws.amazon.com/premiumsupport/faqs/

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
The MySecureData company has five branches across the globe. They want to expand their data centers such that their web server will be in the AWS and each branch would have their own database in the local data center. Based on the user login, the company wants to connect to the data center. How can MySecureData company implement this scenario with the AWS VPC?

A. Create five VPCs with the public subnet for the app server and setup the VPN gateway for each VPN to connect them indMdually.
B. Use the AWS VPN CIoudHub to communicate with multiple VPN connections.
C. Use the AWS CIoudGateway to communicate with multiple VPN connections.
D. It is not possible to connect different data centers from a single VPC.

Answer: B

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. 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. If the organization has multiple VPN connections, he can provide secure communication between sites using the AWS VPN CIoudHub.
The VPN CIoudHub operates on a simple hub-and-spoke model that the user can use with or without a VPC. This design is suitable for customers with multiple branch offices and existing internet connections who would like to implement a convenient, potentially low-cost hub-and-spoke model for primary or backup connectMty between remote offices.
Reference: http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPN_CIoudHub.html

NEW QUESTION 7
One of your AWS Data Pipeline actMties has failed consequently and has entered a hard failure state after retrying thrice. You want to try it again. Is it possible to increase the number of automatic retries to more than thrice?

A. Yes, you can increase the number of automatic retries to 6.
B. Yes, you can increase the number of automatic retries to indefinite number.
C. No, you cannot increase the number of automatic retries.
D. Yes, you can increase the number of automatic retries to 10.

Answer: D

Explanation:
In AWS Data Pipeline, an actMty fails if all of its actMty attempts return with a failed state. By default, an actMty retries three times before entering a hard failure state. You can increase the number of automatic retries to 10. However, the system does not allow indefinite retries.
Reference: https://aws.amazon.com/datapipe|ine/faqs/

NEW QUESTION 8
Regarding Amazon SNS, you can send notification messages to mobile devices through any of the following supported push notification services, EXCEPT:

A. Microsoft Windows Mobile Messaging (MWMM)
B. Google Cloud Messaging for Android (GCM)
C. Amazon Device Messaging (ADM)
D. Apple Push Notification Service (APNS)

Answer: A

Explanation:
In Amazon SNS, you have the ability to send notification messages directly to apps on mobile devices. Notification messages sent to a mobile endpoint can appear in the mobile app as message alerts, badge updates, or even sound alerts. Microsoft Windows Mobile Messaging (MWMM) doesn't exist and is not supported by Amazon SNS.
Reference: http://docs.aws.amazon.com/sns/Iatest/dg/SNSMobiIePush.htm|

NEW QUESTION 9
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_ro|es_terms-and-concepts.html

NEW QUESTION 10
True or False: Amazon EIastiCache supports the Redis key-value store.

A. True, EIastiCache supports the Redis key-value store, but with limited functionalities.
B. False, EIastiCache does not support the Redis key-value store.
C. True, EIastiCache supports the Redis key-value store.
D. False, EIastiCache supports the Redis key-value store only if you are in a VPC environmen

Answer: C

Explanation:
This is true. EIastiCache supports two open-source in-memory caching engines: 1. Memcached - a widely adopted memory object caching system. EIastiCache is protocol compliant with Memcached, so popular tools that you use today with existing Nlemcached environments will work seamlessly with the service. 2. Redis - a popular open-source in-memory key-value store that supports data structures such as sorted sets and lists. EIastiCache supports Master / Slave replication and Multi-AZ which can be used to achieve cross AZ redundancy.
Reference: https://aws.amazon.com/eIasticache/

NEW QUESTION 10
An organization is having an application which can start and stop an EC2 instance as per schedule. The organization needs the MAC address of the instance to be registered with its software. The instance is launched in EC2-CLASSIC. How can the organization update the MAC registration every time an instance is booted?

A. The organization should write a boot strapping script which will get the MAC address from the instance metadata and use that script to register with the application.
B. The organization should provide a MAC address as a part of the user dat
C. Thus, whenever the instance is booted the script assigns the fixed MAC address to that instance.
D. The instance MAC address never change
E. Thus, it is not required to register the MAC address every time.
F. AWS never provides a MAC address to an instance; instead the instance ID is used for identifying the instance for any software registration.

Answer: A

Explanation:
AWS provides an on demand, scalable infrastructure. AWS EC2 allows the user to launch On-Demand instances. AWS does not provide a fixed MAC address to the instances launched in EC2-CLASSIC. If the instance is launched as a part of EC2-VPC, it can have an ENI which can have a fixed MAC. However, with EC2-CLASSIC, every time the instance is started or stopped it will have a new MAC address.
To get this MAC, the organization can run a script on boot which can fetch the instance metadata and get the MAC address from that instance metadata. Once the MAC is received, the organization can register that MAC with the software.
Reference: http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AESDG-chapter-instancedata.html

NEW QUESTION 15
Does an AWS Direct Connect location provide access to Amazon Web Services in the region it is associated with as well as access to other US regions?

A. No, it provides access only to the region it is associated with.
B. No, it provides access only to the US regions other than the region it is associated with.
C. Yes, it provides access.
D. Yes, it provides access but only when there's just one Availability Zone in the regio

Answer: C

Explanation:
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. For example, you can provision a single connection to any AWS Direct Connect location in the US and use it to access public AWS services in all US Regions and AWS GovCloud (US).
Reference: http://docs.aws.amazon.com/directconnect/latest/UserGuide/Welcome.html

NEW QUESTION 20
An organization is planning to setup a management network on the AWS VPC. The organization is trying to secure the webserver on a single VPC instance such that it allows the internet traffic as well as the back-end management traffic. The organization wants to make so that the back end management network interface can receive the SSH traffic only from a selected IP range, while the internet facing webserver will have an IP address which can receive traffic from all the internet IPs.
How can the organization achieve this by running web server on a single instance?

A. It is not possible to have two IP addresses for a single instance.
B. The organization should create two network interfaces with the same subnet and security group to assign separate IPs to each network interface.
C. The organization should create two network interfaces with separate subnets so one instance can have two subnets and the respective security groups for controlled access.
D. The organization should launch an instance with two separate subnets using the same network interface which allows to have a separate CIDR as well as security groups.

Answer: C

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. An Elastic Network Interface (ENI) is a virtual network interface that the user can attach to an instance in a VPC.
The user can create a management network using two separate network interfaces. For the present scenario it is required that the secondary network interface on the instance handles the public facing traffic and the primary network interface handles the back-end management traffic and it is connected to a separate subnet in the VPC that has more restrictive access controls. The public facing interface, which may or may not be behind a load balancer, has an associated security group to allow access to the server from the internet while the private facing interface has an associated security group allowing SSH access only from an allowed range of IP addresses either within the VPC or from the internet, a private subnet within the VPC or a virtual private gateway.
Reference: http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-eni.html

NEW QUESTION 23
An organization is undergoing a security audit. The auditor wants to view the AWS VPC configurations as the organization has hosted all the applications in the AWS VPC. The auditor is from a remote place and wants to have access to AWS to view all the VPC records.
How can the organization meet the expectations of the auditor without compromising on the security of their AWS infrastructure?

A. The organization should not accept the request as sharing the credentials means compromising on security.
B. Create an IAM role which will have read only access to all EC2 services including VPC and assign that role to the auditor.
C. Create an IAM user who will have read only access to the AWS VPC and share those credentials with the auditor.
D. The organization should create an IAM user with VPC full access but set a condition that will not allow to modify anything if the request is from any IP other than the organization's data center.

Answer: C

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 works with IAM and the organization can create IAM users who have access to various VPC services.
If an auditor wants to have access to the AWS VPC to verify the rules, the organization should be careful before sharing any data which can allow making updates to the AWS infrastructure. In this scenario it is recommended that the organization creates an IAM user who will have read only access to the VPC. Share the above mentioned credentials with the auditor as it cannot harm the organization. The sample policy is given below:
{
"Effect":"AI|ow",
"Action":["ec2:DescribeVpcs", "ec2:DescribeSubnets",
"ec2:DescribeInternetGateways", "ec2:DescribeCustomerGateways", "ec2:DescribeVpnGateways", "ec2:DescribeVpnConnections", "ec2:DescribeRouteTabIes",
"ec2:DescribeAddresses", "ec2:DescribeSecurityGroups", "ec2:DescribeNetworkAcIs", "ec2:DescribeDhcpOptions", "ec2:DescribeTags", "ec2:DescribeInstances"
]!
"Resource":"*"
}
Reference: http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/VPC_IANI.htmI

NEW QUESTION 25
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 28
An organization is planning to create a secure scalable application with AWS VPC and ELB. The organization has two instances already running and each instance has an ENI attached to it in addition to a primary network interface. The primary network interface and additional ENI both have an elastic IP attached to it.
If those instances are registered with ELB and the organization wants ELB to send data to a particular EIP of the instance, how can they achieve this?

A. The organization should ensure that the IP which is required to receive the ELB traffic is attached to a primary network interface.
B. It is not possible to attach an instance with two EN|s with ELB as it will give an IP conflict error.
C. The organization should ensure that the IP which is required to receive the ELB traffic is attached to an additional ENI.
D. It is not possible to send data to a particular IP as ELB will send to any one EI

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.
When the user registers a multi-homed instance (an instance that has an Elastic Network Interface (ENI) attached) with a load balancer, the load balancer will route the traffic to the IP address of the primary network interface (eth0).
Reference: http://docs.aws.amazon.com/E|asticLoadBaIancing/latest/DeveIoperGuide/gs-ec2VPC.html

NEW QUESTION 31
A user has configured EBS volume with PIOPS. The user is not experiencing the optimal throughput. Which of the following could not be factor affecting I/O performance of that EBS volume?

A. EBS bandwidth of dedicated instance exceeding the PIOPS

B. EC2 bandwidth
C. EBS volume size
D. Instance type is not EBS optimized

Answer: C

Explanation:
If the user is not experiencing the expected IOPS or throughput that is provisioned, ensure that the EC2 bandwidth is not the limiting factor, the instance is EBS-optimized (or include 10 Gigabit network
connectMty) and the instance type EBS dedicated bandwidth exceeds the IOPS more than he has provisioned.
Reference: http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-io-characteristics.html

NEW QUESTION 34
What RAID method is used on the Cloud Block Storage back-end to implement a very high level of reliability and performance?

A. RAID 1 (Mirror)
B. RAID 5 (Blocks striped, distributed parity)
C. RAID 10 (Blocks mirrored and striped)
D. RAID 2 (Bit level striping)

Answer: C

Explanation:
Cloud Block Storage back-end storage volumes employs the RAID 10 method to provide a very high level of reliability and performance.
Reference: http://www.rackspace.com/knowIedge_center/product-faq/cloud-block-storage

NEW QUESTION 38
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 ephermal 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 ephermal storage for cost savings.
Reference: http://aws.amazon.com/ec2/purchasing-options/spot-instances/

NEW QUESTION 40
An EC2 instance that performs source/destination checks by default is launched in a private VPC subnet. All security, NACL, and routing definitions are configured as expected. A custom NAT instance is launched.
Which of the following must be done for the custom NAT instance to work?

A. The source/destination checks should be disabled on the NAT instance.
B. The NAT instance should be launched in public subnet.
C. The NAT instance should be configured with a public IP address.
D. The NAT instance should be configured with an elastic IP addres

Answer: A

Explanation:
Each EC2 instance performs source/destination checks by default. This means that the instance must be the source or destination of any traffic it sends or receives. However, a NAT instance must be able to send and receive traffic when the source or destination is not itself. Therefore, you must disable source/destination checks on the NAT instance.
Reference:
http://docs.aws.amazon.com/AmazonVPC/Iatest/UserGuide/VPC_NAT_|nstance.htm|#EIP_Disab|e_Src DestCheck

NEW QUESTION 45
How does in-memory caching improve the performance of applications in E|astiCache?

A. It improves application performance by deleting the requests that do not contain frequently accessed data.
B. It improves application performance by implementing good database indexing strategies.
C. It improves application performance by using a part of instance RAM for caching important data.
D. It improves application performance by storing critical pieces of data in memory for low-latency acces

Answer: D

Explanation:
In Amazon ElastiCache, in-memory caching improves application performance by storing critical pieces of data in memory for low-latency access. Cached information may include the results of I/O-intensive database queries or the results of computationally intensive calculations.
Reference: http://aws.amazon.com/elasticache/faqs/#g4

NEW QUESTION 48
Which of the following is true of an instance profile when an IAM role is created using the console?

A. The instance profile uses a different name.
B. The console gives the instance profile the same name as the role it corresponds to.
C. The instance profile should be created manually by a user.
D. The console creates the role and instance profile as separate actions.

Answer: B

Explanation:
Amazon EC2 uses an instance profile as a container for an IAM role. When you create an IAM role using the console, the console creates an instance profile automatically and gives it the same name as the role it corresponds to. If you use the AWS CLI, API, or an AWS SDK to create a role, you create the role and instance profile as separate actions, and you might give them different names.
Reference:
http://docs.aws.amazon.com/IAM/latest/UserGuide/id_roIes_use_switch-role-ec2_instance-profiles.html

NEW QUESTION 53
In Amazon RDS for PostgreSQL, you can provision up to 3TB storage and 30,000 IOPS per database instance. For a workload with 50% writes and 50% reads running on a cr1.8xIarge instance, you can realize over 25,000 IOPS for PostgreSQL. However, by provisioning more than this limit, you may be able to achieve:

A. higher latency and lower throughput.
B. lower latency and higher throughput.
C. higher throughput only.
D. higher latency onl

Answer: B

Explanation:
You can provision up to 3TB storage and 30,000 IOPS per database instance. For a workload with 50% writes and 50% reads running on a cr1.8xIarge instance, you can realize over 25,000 IOPS for PostgreSQL. However, by provisioning more than this limit, you may be able to achieve lower latency and higher throughput. Your actual realized IOPS may vary from the amount you provisioned based on your database workload, instance type, and database engine choice.
Reference: https://aws.amazon.com/rds/postgresq|/

NEW QUESTION 56
Identify an application that polls AWS Data Pipeline for tasks and then performs those tasks.

A. A task executor
B. A task deployer
C. A task runner
D. A task optimizer

Answer: C

Explanation:
A task runner is an application that polls AWS Data Pipeline for tasks and then performs those tasks. You can either use Task Runner as provided by AWS Data Pipeline, or create a custom Task Runner application.
Task Runner is a default implementation of a task runner that is provided by AWS Data Pipeline. When Task Runner is installed and configured, it polls AWS Data Pipeline for tasks associated with pipelines that you have activated. When a task is assigned to Task Runner, it performs that task and reports its status back to AWS Data Pipeline. If your workflow requires non-default behavior, you'II need to implement that functionality in a custom task runner.
Reference:
http://docs.aws.amazon.com/datapipeline/latest/DeveIoperGuide/dp-how-remote-taskrunner-client.html

NEW QUESTION 59
An organization is planning to use NoSQL DB for its scalable data needs. The organization wants to host an application securely in AWS VPC. What action can be recommended to the organization?

A. The organization should setup their own NoSQL cluster on the AWS instance and configure route tables and subnets.
B. The organization should only use a DynamoDB because by default it is always a part of the default subnet provided by AWS.
C. The organization should use a DynamoDB while creating a table within the public subnet.
D. The organization should use a DynamoDB while creating a table within a private subne

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. Currently VPC does not support DynamoDB. Thus, if the user wants to implement VPC, he has to setup his own NoSQL DB within the VPC. Reference:
http://docs.aws.amazon.com/AmazonVPC/Iatest/UserGuide/VPC_Introduction.htm|

NEW QUESTION 63
What happens when Dedicated instances are launched into a VPC?

A. If you launch an instance into a VPC that has an instance tenancy of dedicated, you must manually create a Dedicated instance.
B. If you launch an instance into a VPC that has an instance tenancy of dedicated, your instance is created as a Dedicated instance, only based on the tenancy of the instance.
C. If you launch an instance into a VPC that has an instance tenancy of dedicated, your instance isautomatically a Dedicated instance, regardless of the tenancy of the instance.
D. None of these are tru

Answer: C

Explanation:
If you launch an instance into a VPC that has an instance tenancy of dedicated, your instance is automatically a Dedicated instance, regardless of the tenancy of the instance.
Reference: http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/dedicated-instance.html

NEW QUESTION 68
When using Numeric Conditions within IAM, short versions of the available comparators can be used instead of the more verbose versions. Which of the following is the short version of the Numeric Condition "NumericLessThanEquaIs"?

A. numlteq
B. numlteql
C. numltequals
D. numeql

Answer: A

Explanation:
When using Numeric Conditions within IAM, short versions of the available comparators can be used instead of the more verbose versions. For instance, numlteq is the short version of NumericLessThanEquaIs.
Reference: http://awsdocs.s3.amazonaws.com/SQS/2011-10-01/sqs-dg-2011-10-01.pdf

NEW QUESTION 71
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/AccessPoIicyLanguage_EIementDescriptions.html

NEW QUESTION 72
You are setting up some EBS volumes for a customer who has requested a setup which includes a RAID (redundant array of inexpensive disks). AWS has some recommendations for RAID setups. Which RAID setup is not recommended for Amazon EBS?

A. RAID 1 only
B. RAID 5 only
C. RAID 5 and RAID 6
D. RAID 0 only

Answer: C

Explanation:
With Amazon EBS, you can use any of the standard RAID configurations that you can use with a traditional bare metal server, as long as that particular RAID configuration is supported by the operating
system for your instance. This is because all RAID is accomplished at the software level. For greater I/O performance than you can achieve with a single volume, RAID 0 can stripe multiple volumes together; for on-instance redundancy, RAID 1 can mirror two volumes together.
RAID 5 and RAID 6 are not recommended for Amazon EBS because the parity write operations of these RAID modes consume some of the IOPS available to your volumes.
Reference: http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/raid-config.html

NEW QUESTION 74
What is the average queue length recommended by AWS to achieve a lower latency for the 200 PIOPS EBS volume?

A. 5
B. 1
C. 2
D. 4

Answer: B

Explanation:
The queue length is the number of pending I/O requests for a device. The optimal average queue length will vary for every customer workload, and this value depends on a particular application's sensitMty to IOPS and latency. If the workload is not delivering enough I/O requests to maintain the optimal average queue length, then the EBS volume might not consistently deliver the IOPS that have been provisioned. However, if the workload maintains an average queue length that

is higher than the optimal value, then the per-request I/O latency will increase; in this case, the user should provision more IOPS for his volume. AWS recommends that the user should target an optimal average queue length of 1 for every 200 provisioned IOPS and tune that value based on his application requirements.
Reference: http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-workload-demand.html

NEW QUESTION 76
You're trying to delete an SSL certificate from the IAM certificate store, and you're getting the message "Certificate: <certificate-id> is being used by CloudFront." Which of the following statements is probably the reason why you are getting this error?

A. Before you can delete an SSL certificate you need to set up https on your server.
B. Before you can delete an SSL certificate, you need to set up the appropriate access level in IAM
C. Before you can delete an SSL certificate, you need to either rotate SSL certificates or revert from using a custom SSL certificate to using the default CloudFront certificate.
D. You can't delete SSL certificates . You need to request it from AW

Answer: C

Explanation:
CloudFront is a web service that speeds up distribution of your static and dynamic web content, for example, .html, .css, .php, and image files, to end users. Every CloudFront web distribution must be associated either with the default CloudFront certificate or with a custom SSL certificate. Before you can delete an SSL certificate, you need to either rotate SSL certificates (replace the current custom SSL certificate with another custom SSL certificate) or revert from using a custom SSL certificate to using the default CloudFront certificate.
Reference: http://docs.aws.amazon.com/AmazonC|oudFront/latest/DeveIoperGuide/Troubleshooting.html

NEW QUESTION 81
A user has set the IAM policy where it denies all requests if a request is not from IP 10.10.10.1/32. The other policy says allow all requests between 5 PM to 7 PM. What will happen when a user is requesting access from IP 55.109.10.12/32 at 6 PM?

A. It will deny access
B. It is not possible to set a policy based on the time or IP
C. IAM will throw an error for policy conflict
D. It will allow access

Answer: A

Explanation:
When a request is made, the AWS IAM policy decides whether a given request should be allowed or denied. The evaluation logic follows these rules:
By default, all requests are denied. (In general, requests made using the account credentials for resources in the account are always allowed.)
An explicit allow policy overrides this default.
An explicit deny policy overrides any allows.
In this case since there are explicit deny and explicit allow statements. Thus, the request will be denied since deny overrides allow.
Reference: http://docs.aws.amazon.com/IAM/Iatest/UserGuide/AccessPoIicyLanguage_EvaIuationLogic.htmI

NEW QUESTION 86
To get started using AWS Direct Connect, in which of the following steps do you configure Border Gateway Protocol (BGP)?

A. Complete the Cross Connect
B. Configure Redundant Connections with AWS Direct Connect
C. Create a Virtual Interface
D. Download Router Configuration

Answer: C

Explanation:
In AWS Direct Connect, your network must support Border Gateway Protocol (BGP) and BGP MD5 authentication, and you need to provide a private Autonomous System Number (ASN) for that to connect to Amazon Virtual Private Cloud (VPC). To connect to public AWS products such as Amazon EC2 and Amazon S3, you will also need to provide a public ASN that you own (preferred) or a private ASN. You have to configure BGP in the Create a Virtual Interface step.
Reference: http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted.html#createvirtualinterface

NEW QUESTION 91
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/DeveIoperGuide/what-is-datapipeline.htmI

NEW QUESTION 94
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 96
Is there any way to own a direct connection to Amazon Web Services?

A. No, AWS only allows access from the public Internet.
B. No, you can create an encrypted tunnel to VPC, but you cannot own the connection.
C. Yes, you can via Amazon Dedicated Connection.
D. Yes, you can via AWS Direct Connec

Answer: D

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. One end of the cable is connected to your router, the other to an AWS Direct Connect router. With this connection in place, you can create virtual interfaces directly to the AWS cloud (for example, to Amazon Elastic Compute Cloud (Amazon EC2) and Amazon Simple Storage Service (Amazon S3)) and to Amazon Virtual Private Cloud (Amazon VPC), bypassing Internet service providers in your network path.
Reference: http://docs.aws.amazon.com/directconnect/latest/UserGuide/Welcome.html

NEW QUESTION 99
In Amazon ElastiCache, which of the following statements is correct?

A. When you launch an ElastiCache cluster into an Amazon VPC private subnet, every cache node is assigned a public IP address within that subnet.
B. You cannot use ElastiCache in a VPC that is configured for dedicated instance tenancy.
C. If your AWS account supports only the EC2-VPC platform, E|astiCache will never launch your cluster in a VPC.
D. ElastiCache is not fully integrated with Amazon Virtual Private Cloud (VPC).

Answer: B

Explanation:
The VPC must allow non-dedicated EC2 instances. You cannot use ElastiCache in a VPC that is configured for dedicated instance tenancy.
Reference: http://docs.aws.amazon.com/AmazonE|astiCache/latest/UserGuide/AmazonVPC.EC.html

NEW QUESTION 103
An organization has setup RDS with VPC. The organization wants RDS to be accessible from the internet. Which of the below mentioned configurations is not required in this scenario?

A. The organization must enable the parameter in the console which makes the RDS instance publicly accessible.
B. The organization must allow access from the internet in the RDS VPC security group,
C. The organization must setup RDS with the subnet group which has an external IP.
D. The organization must enable the VPC attributes DNS hostnames and DNS resolutio

Answer: C

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, such as RDS into a virtual network that the user has defined. Subnets are segments of a VPC's IP address range that the user can designate to a group of VPC resources based on security and operational needs. A DB subnet group is a collection of subnets (generally private) that the user can create in a VPC and which the user assigns to the RDS DB instances. A DB subnet group allows the user to specify a particular VPC when creating DB instances. If the RDS instance is required to be accessible from the internet:
The organization must setup that the RDS instance is enabled with the VPC attributes, DNS hostnames and DNS resolution.
The organization must enable the parameter in the console which makes the RDS instance publicly accessible.
The organization must allow access from the internet in the RDS VPC security group. Reference:
http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_VPC.html

NEW QUESTION 104
Your startup wants to implement an order fulfillment process for selling a personalized gadget that needs an average of 3-4 days to produce with some orders taking up to 6 months you expect 10 orders per day on your first day. 1000 orders per day after 6 months and 10,000 orders after 12 months.
Orders coming in are checked for consistency men dispatched to your manufacturing plant for production quality control packaging shipment and payment processing If the product does not meet the quality standards at any stage of the process employees may force the process to repeat a step Customers are notified via email about order status and any critical issues with their orders such as payment failure.
Your case architecture includes AWS Elastic Beanstalk for your website with an RDS MySQL instance for customer data and orders.
How can you implement the order fulfillment process while making sure that the emails are delivered reliably?

A. Add a business process management application to your Elastic Beanstalk app sewers and re-use the ROS database for tracking order status use one of the Elastic Beanstalk instances to send emails to customers.
B. Use SWF with an Auto Scaling group of actMty workers and a decider instance in another Auto Scaling group with min/max=1 Use the decider instance to send

emails to customers.
C. Use SWF with an Auto Scaling group of actMty workers and a decider instance in another Auto Scaling group with min/max=1 use SES to send emails to customers.
D. Use an SQS queue to manage all process tasks Use an Auto Scaling group of EC2 Instances that poll the tasks and execute the
E. Use SES to send emails to customers.

Answer: C

NEW QUESTION 108
A read only news reporting site with a combined web and application tier and a database tier that receives large and unpredictable traffic demands must be able to respond to these traffic fluctuations automatically. What AWS services should be used meet these requirements?

A. Stateless instances for the web and application tier synchronized using EIastiCache Memcached in an autoscaimg group monitored with CIoudWatch and RDS with read replicas.
B. Stateful instances for the web and application tier in an autoscaling group monitored with CIoudWatch and RDS with read replicas.
C. Stateful instances for the web and application tier in an autoscaling group monitored with CIoudWatc
D. And multi-AZ RDS.
E. Stateless instances for the web and application tier synchronized using EIastiCache Memcached in an autoscaling group monitored with CIoudWatch and multi-AZ RDS.

Answer: A

NEW QUESTION 110
You are designing a photo-sharing mobile app. The application will store all pictures in a single Amazon S3 bucket. Users will upload pictures from their mobile device directly to Amazon S3 and will be able to view and download their own pictures directly from Amazon S3.
You want to configure security to handle potentially millions of users in the most secure manner possible. What should your server-side application do when a new user registers on the photo-sharing mobile application?

A. Create an IAM use
B. Update the bucket policy with appropriate permissions for the IAM use
C. Generate an access key and secret key for the IAM user, store them in the mobile app and use these credentials to access Amazon S3.
D. Create an IAM use
E. Assign appropriate permissions to the IAM use
F. Generate an access key and secret key for the IAM user, store them in the mobile app and use these credentials to access Amazon S3.
G. Create a set of long-term credentials using AWS Security Token Service with appropriate permission
H. Store these credentials in the mobile app and use them to access Amazon S3.
I. Record the user's information in Amazon RDS and create a role in IAM with appropriate permission
J. When the user uses their mobile app, create temporary credentials using the AWS Security Token Service "AssumeRoIe" functio
K. Store these credentials in the mobile app's memory and use them to access Amazon S3. Generate new credentials the next time the user runs the mobile app.
L. Record the user's information in Amazon DynamoD
M. When the user uses their mobile app, create temporary credentials using AWS Security Token Service with appropriate permission
N. Store these credentials in the mobile app's memory and use them to access Amazon S3. Generate new credentials the next time the user runs the mobile app.

Answer: D

NEW QUESTION 111
You currently operate a web application In the AWS US-East region The application runs on an
auto-scaled layer of EC2 instances and an RDS Multi-AZ database Your IT security compliance officer has tasked you to develop a reliable and durable logging solution to track changes made to your EC2.IAM And RDS resources. The solution must ensure the integrity and confidentiality of your log data. Which of these solutions would you recommend?

A. Create a new C|oudTrai| trail with one new S3 bucket to store the logs and with the global services option selected Use IAM roles S3 bucket policies and Multi Factor Authentication (MFA) Delete on the S3 bucket that stores your logs.
B. Create a new CIoudTraiI with one new S3 bucket to store the logs Configure SNS to send log file delivery notifications to your management system Use IAM roles and S3 bucket policies on the S3 bucket mat stores your logs.
C. Create a new CIoudTraiI trail with an existing S3 bucket to store the logs and with the global services option selected Use S3 ACLs and Multi Factor Authentication (MFA) Delete on the S3 bucket that stores your logs.
D. Create three new CIoudTraiI trails with three new S3 buckets to store the logs one for the AWS Management console, one for AWS SDKs and one for command line tools Use IAM roles and S3 bucket policies on the S3 buckets that store your logs.

Answer: A

NEW QUESTION 116
You require the ability to analyze a large amount of data, which is stored on Amazon S3 using Amazon Elastic Map Reduce. You are using the cc2 8x large Instance type, whose CPUs are mostly idle during processing. Which of the below would be the most cost efficient way to reduce the runtime of the job?

A. Create more smaller flies on Amazon S3.
B. Add additional cc2 8x large instances by introducing a task group.
C. Use smaller instances that have higher aggregate I/O performance.
D. Create fewer, larger files on Amazon S3.

Answer: C

NEW QUESTION 118
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 121
Your company currently has a 2-tier web application running in an on-premises data center. You have experienced several infrastructure failures in the past two months resulting in significant financial losses. Your CIO is strongly agreeing to move the application to AWS. While working on achieving buy-in from the other company executives, he asks you to develop a disaster recovery plan to help improve Business continuity in the short term. He specifies a target Recovery Time Objective (RTO) of 4 hours and a Recovery Point Objective (RPO) of 1 hour or less. He also asks you to implement the solution within 2 weeks. Your database is 200GB in size and you have a 20Mbps Internet connection. How would you do this while minimizing costs?

A. Create an EBS backed private AMI which includes a fresh install of your applicatio
B. Develop a Cloud Formation template which includes your AMI and the required EC2, AutoScaling, and ELB resources to support deploying the application across Multiple- Availability-Zone
C. Asynchronously replicate transactions from your on-premises database to a database instance in AWS across a secure VPN connection.
D. Deploy your application on EC2 instances within an Auto Scaling group across multiple availability zone
E. Asynchronously replicate transactions from your on-premises database to a database instance in AWS across a secure VPN connection.
F. Create an EBS backed private AMI which includes a fresh install of your applicatio
G. Setup a script in your data center to backup the local database every 1 hour and to encrypt and copy the resulting file to an S3 bucket using multi-part upload.
H. Install your application on a compute-optimized EC2 instance capable of supporting the application's average loa
I. Synchronously replicate transactions from your on-premises database to a database instance in AWS across a secure Direct Connect connection.

Answer: A

NEW QUESTION 123
You are designing an intrusion detection prevention (IDS/IPS) solution for a customer web application in a single VPC. You are considering the options for implementing IOS IPS protection for traffic coming from the Internet.
Which of the following options would you consider? (Choose 2 answers)

A. Implement IDS/IPS agents on each Instance running In VPC
B. Configure an instance in each subnet to switch its network interface card to promiscuous mode and analyze network traffic.
C. Implement Elastic Load Balancing with SSL listeners In front of the web applications
D. Implement a reverse proxy layer in front of web servers and configure IDS/IPS agents on each reverse proxy server.

Answer: BD

NEW QUESTION 125
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 sewers 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 lime 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 worn 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 throughSQS.
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 127
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 C|oudFront distribution for both static and dynamic content.
D. Use an Elastic Load Balancer with auto scaling groups at the we
E. App and Amazon Relational Database Service (RDS) tiers
F. Add alert Amazon CIoudWatch to look for high Network in and CPU utilization.
G. Create processes and capabilities to quickly add and remove rules to the instance OS firewal

Answer: CEF

NEW QUESTION 129
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 platfor
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 applicatio
E. Create an AWS OpsWorks stack consisting of a custom laye
F. Create custom recipes to install Docker and to deploy your Docker container using the Dockerfil
G. Create customer recipes to install and configure the application to publish the logs to Amazon CIoudWatch Logs.
H. Create Dockerfile for the applicatio
I. Create an AWS OpsWorks stack consisting of a Docker layer that uses the Dockerfil
J. Create custom recipes to install and configure Amazon Kineses to publish the logs into Amazon CIoudWatch.
K. Create a Dockerfile for the applicatio
L. Create an AWS Elastic Beanstalk application using the Docker platform and the Dockerfil
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 AM
P. Create an Amazon Elastic Compute Cloud (EC2) instance from AMI, and install and configure the Amazon C|oudWatch Logs agen
Q. Create a new AMI from the instanc
R. Create an AWS Elastic Beanstalk application using the AMI platform and the new AMI.

Answer: AD

NEW QUESTION 130
Your website is serving on-demand training videos to your workforce. Videos are uploaded monthly in high resolution MP4 format. Your workforce is distributed globally often on the move and using company-provided tablets that require the HTTP Live Streaming (HLS) protocol to watch a video. Your company has no video transcoding expertise and it required you may need to pay for a consultant.
How do you implement the most cost-efficient architecture without compromising high availability and
quality of video delivery'?

A. A video transcoding pipeline running on EC2 using SQS to distribute tasks and Auto Scaling to adjust the number of nodes depending on the length of the queu
B. EBS volumes to host videos and EBS snapshots to incrementally backup original files after a few day
C. CIoudFront to serve HLS transcoded videos from EC2.
D. Elastic Transcoder to transcode original high-resolution MP4 videos to HL
E. EBS volumes to host videos and EBS snapshots to incrementally backup original files after a few day
F. CIoudFront to serve HLS transcoded videos from EC2.
G. Elastic Transcoder to transcode original high-resolution MP4 videos to HL
H. S3 to host videos with Lifecycle Management to archive original files to Glacier after a few day
I. C|oudFront to serve HLS transcoded videos from S3.
J. A video transcoding pipeline running on EC2 using SQS to distribute tasks and Auto Scaling to adjust the number of nodes depending on the length of the queu
K. S3 to host videos with Lifecycle Management to archive all files to Glacier after a few day
L. CIoudFront to serve HLS transcoded videos from Glacier.

Answer: C

NEW QUESTION 132
You have deployed a three-tier web application in a VPC with a CIDR block of 10.0.0.0/28 You initially deploy two web servers, two application sewers, two database sewers and one NAT instance tor a total of seven EC2 instances The web. Application and database sewers are deployed across two availability zones (AZs). You also deploy an ELB in front of the two web servers, and use Route53 for DNS Web (raffile gradually increases in the first few days following the deployment, so you attempt to double the number of instances in each tier of the application to handle the new load unfortunately some of these new instances fail to launch.
Which of the following could be the root caused? (Choose 2 answers)

A. AWS reserves the first and the last private IP address in each subnet's CIDR block so you do not have enough addresses left to launch all of the new EC2 instances
B. The Internet Gateway (IGW) of your VPC has scaled-up, adding more instances to handle the traffic spike, reducing the number of available private IP addresses for new instance launches
C. The ELB has scaled-up, adding more instances to handle the traffic spike, reducing the number of available private IP addresses for new instance launches
D. AWS reserves one IP address in each subnet's CIDR block for Route53 so you do not have enough addresses left to launch all of the new EC2 instances
E. AWS reserves the first four and the last IP address in each subnet's CIDR block so you do not have enough addresses left to launch all of the new EC2 instances

Answer: CE

NEW QUESTION 137
A company is building a voting system for a popular TV show, viewers win 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 CIoudFront 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 CIoudFront 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 tableto store the users vote.
C. Use CIoudFront 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 CIoudFront 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 sewers win process the users vote and store the result into an SQS queue using IAM Roles for EC2 Instances to gain permissions to the SQS queu
E. A set of application sewers will then retrieve the items from the queue and store the result into a DynamoDB table.

Answer: D

NEW QUESTION 140
You are designing a data leak prevention solution for your VPC environment. You want your VPC Instances to be able to access software depots and distributions on the Internet for product updates. The depots and distributions are accessible via third party CDNs by their URLs. You want to explicitly deny any other outbound connections from your VPC instances to hosts on the internet.
Which of the following options would you consider?

A. Configure a web proxy server in your VPC and enforce URL-based rules for outbound access Remove default routes.
B. Implement security groups and configure outbound rules to only permit traffic to software depots.
C. Move all your instances into private VPC subnets remove default routes from all routing tables and add specific routes to the software depots and distributions only.
D. Implement network access control lists to all specific destinations, with an Implicit deny as a rul

Answer: A

NEW QUESTION 144
You have an application running on an EC2 instance which will allow users to download files from a private S3 bucket using a pre-signed URL. Before generating the URL, the application should verify the existence of the file in S3. How should the application use AWS credentials to access the S3 bucket securely?

A. Use the AWS account access keys; the application retrieves the credentials from the source code of the application.
B. Create an IAM role for EC2 that allows list access to objects In the S3 bucket; launch the Instance with the role, and retrieve the roIe's credentials from the EC2 instance metadata.
C. Create an IAM user for the application with permissions that allow list access to the S3 bucket; the application retrieves the IAM user credentials from a temporary directory with permissions that allow read access only to the Application user.
D. Create an IAM user for the application with permissions that allow list access to the S3 bucket; launch the instance as the IANI user, and retrieve the IAM user's credentials from the EC2 instance user data.

Answer: B

NEW QUESTION 148
A 3-tier e-commerce web application is current deployed on-premises and will be migrated to AWS for greater scalability and elasticity The web server currently shares read-only data using a network distributed file system The app server tier uses a clustering mechanism for discovery and shared session state that depends on IP multicast The database tier uses shared-storage clustering to provide database fall over capability, and uses several read slaves for scaling Data on all servers and the distributed file system directory is backed up weekly to off-site tapes
Which AWS storage and database architecture meets the requirements of the application?

A. Web servers: store read-only data in S3, and copy from S3 to root volume at boot tim
B. App servers: share state using a combination of DynamoDB and IP unicas
C. Database: use RDS with multi-AZ deployment and one or more read replica
D. Backup: web sewers, app sewers, and database backed up weekly to Glacier using snapshots.
E. Web sewers: store read-only data in an EC2 NFS sewer; mount to each web server at boot tim
F. App servers: share state using a combination of DynamoDB and IP multicas
G. Database: use RDS with multi-AZ deployment and one or more Read Replica
H. Backup: web and app servers backed up weekly via AMIs, database backed up via DB snapshots.
I. Web sewers: store read-only data in S3, and copy from S3 to root volume at boot tim
J. App sewers: share state using a combination of DynamoDB and IP unicas
K. Database: use RDS with multi-AZ deployment and one or more Read Replica
L. Backup: web and app sewers backed up weekly via AMIs, database backed up via DB snapshots.
M. Web sewers: store read-only data in S3, and copy from S3 to root volume at boot tim
N. App sewers: share state using a combination of DynamoDB and IP unicas
O. Database: use RDS with multi-AZ deploymen
P. Backup: web and app servers backed up weekly via AMIs, database backed up via DB snapshots.

Answer: C

NEW QUESTION 153
Your company has recently extended its datacenter into a VPC on AWS to add burst computing capacity as needed Members of your Network Operations Center need to be able to go to the AWS Management Console and administer Amazon EC2 instances as necessary You don't want to create new IAM users for each NOC member and make those users sign in again to the AWS Management Console Which option below will meet the needs for your NOC members?

A. Use OAuth 2.0 to retrieve temporary AWS security credentials to enable your NOC members to sign in to the AWS Management Console.
B. Use web Identity Federation to retrieve AWS temporary security credentials to enable your NOC members to sign in to the AWS Management Console.
C. Use your on-premises SAML 2.0-compliant identity provider (IDP) to grant the NOC members federated access to the AWS Management Console via the AWS single sign-on (SSO) endpoint.
D. Use your on-premises SAML2.0-compliam identity provider (IDP) to retrieve temporary security credentials to enable NOC members to sign in to the AWS Management Console.

Answer: D

NEW QUESTION 156
A benefits enrollment company is hosting a 3-tier web application running in a VPC on AWS which includes a NAT (Network Address Translation) instance in the public Web tier. There is enough provisioned capacity for the expected workload tor the new fiscal year benefit enrollment period plus some extra overhead Enrollment proceeds nicely for two days and then the web tier becomes unresponsive, upon investigation using CIoudWatch and other monitoring tools it is discovered that there is an extremely large and unanticipated amount of inbound traffic coming from a set of 15 specific IP addresses over port 80 from a country where the benefits company has no customers. The web tier instances are so overloaded that benefit enrollment administrators cannot even SSH into them. Which actMty would be useful in defending against this attack?

A. Create a custom route table associated with the web tier and block the attacking IP addresses from the IGW (Internet Gateway)
B. Change the EIP (Elastic IP Address) of the NAT instance in the web tier subnet and update the Nlain Route Table with the new EIP
C. Create 15 Security Group rules to block the attacking IP addresses over port 80

D. Create an inbound NACL (Network Access control list) associated with the web tier subnet with deny rules to block the attacking IP addresses

Answer: D

NEW QUESTION 161
You deployed your company website using Elastic Beanstalk and you enabled log file rotation to S3. An Elastic Map Reduce job is periodically analyzing the logs on S3 to build a usage dashboard that you share with your CIO.
You recently improved overall performance of the website using Cloud Front for dynamic content delivery and your website as the origin.
After this architectural change, the usage dashboard shows that the traffic on your website dropped by an order of magnitude. How do you fix your usage dashboard'?

A. Enable Cloud Front to deliver access logs to S3 and use them as input of the Elastic Map Reduce job.
B. Turn on Cloud Trail and use trail log tiles on S3 as input of the Elastic Map Reduce job
C. Change your log collection process to use Cloud Watch ELB metrics as input of the Elastic MapReduce job
D. Use Elastic Beanstalk "Rebuild Environment" option to update log delivery to the Elastic lV|ap Reduce job.
E. Use Elastic Beanstalk 'Restart App server(s)" option to update log delivery to the Elastic Map Reduce job.

Answer: D

NEW QUESTION 163
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 on an S3 bucket owned by the security officers and accessible only by EC2 Role of the web servers.
B. Configure the web servers to retrieve the certificate upon boot from an CIoudHSM is 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 165
You have recently joined a startup company building sensors to measure street noise and air quality in urban areas. The company has been running a pilot deployment of around 100 sensors for 3 months each sensor uploads 1KB of sensor data every minute to a backend hosted on AWS.
During the pilot, you measured a peak or 10 IOPS on the database, and you stored an =average of 3GB of sensor data per month in the database.
The current deployment consists of a load-balanced auto scaled Ingestion layer using EC2 instances and a PostgreSQL RDS database with 500GB standard storage.
The pilot is considered a success and your CEO has managed to get the attention or some potential investors. The business plan requires a deployment of at least 100K sensors which needs to be supported by the backend. You also need to store sensor data for at least two years to be able to compare year over year Improvements.
To secure funding, you have to make sure that the platform meets these requirements and leaves room for further scaling. Which setup win meet the requirements?

A. Add an SQS queue to the ingestion layer to buffer writes to the RDS instance
B. Ingest data into a DynamoDB table and move old data to a Redshift cluster
C. Replace the RDS instance with a 6 node Redshift cluster with 96TB of storage
D. Keep the current architecture but upgrade RDS storage to 3TB and 10K provisioned IOPS

Answer: C

NEW QUESTION 169
You are designing Internet connectMty for your VPC. The Web sewers 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 itwith all subnets Configure a DNS A record that points to the NAT instance public IP address.
B. Configure a C|oudFront distribution and configure the origin to point to the private IP addresses of your Web sewers Configure a Route53 CNAME record to your CIoudFront distribution.
C. Place all your web servers behind ELB Configure a Route53 CNMIE to point to the ELB DNS name.
D. Assign EIPs to all web sewer
E. Configure a Route53 record set with all E|Ps, 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 172
You control access to S3 buckets and objects with:

A. Identity and Access Management (IAM) Policies.
B. Access Control Lists (ACLs).
C. Bucket Policies.
D. All of the above

Answer: D

NEW QUESTION 177
You have launched an EC2 instance with four (4) 500 GB EBS Provisioned IOPS volumes attached. The EC2 instance is EBS-Optimized and supports 500 Mbps

throughput between EC2 and EBS. The four EBS volumes are configured as a single RAID 0 device, and each Provisioned IOPS volume is provisioned with 4,000 IOPS (4,000 16KB reads or writes), for a total of 16,000 random IOPS on the instance. The EC2 instance initially delivers the expected 16,000 IOPS random read and write performance. Sometime later, in order to increase the total random I/O performance of the instance, you
add an additional two 500 GB EBS Provisioned IOPS volumes to the RAID. Each volume is provisioned to 4,000 |OPs like the original four, for a total of 24,000 IOPS on the EC2 instance. Monitoring shows that the EC2 instance CPU utilization increased from 50% to 70%, but the total random IOPS measured at the instance level does not increase at all.
What is the problem and a valid solution?

A. The EBS-Optimized throughput limits the total IOPS that can be utilized; use an EBSOptimized instance that provides larger throughput.
B. Small block sizes cause performance degradation, limiting the I/O throughput; configure the instance device driver and filesystem to use 64KB blocks to increase throughput.
C. The standard EBS Instance root volume limits the total IOPS rate; change the instance root volume to also be a 500GB 4,000 Provisioned IOPS volume.
D. Larger storage volumes support higher Provisioned IOPS rates; increase the provisioned volume storage of each of the 6 EBS volumes to 1TB.
E. RAID 0 only scales linearly to about 4 devices; use RAID 0 with 4 EBS Provisioned IOPS volumes, but increase each Provisioned IOPS EBS volume to 6,000 IOPS.

Answer: C

NEW QUESTION 180
Your customer is willing to consolidate their log streams (access logs application logs security logs etc.) in one single system. Once consolidated, the customer wants to analyze these logs in real time based on heuristics. From time to time, the customer needs to validate heuristics, which requires going back to data samples extracted from the last 12 hours?
What is the best approach to meet your customer's requirements?

A. Send all the log events to Amazon SQS, setup an Auto Scaling group of EC2 sewers to consume the logs and apply the heuristics.
B. Send all the log events to Amazon Kinesis, develop a client process to apply heuristics on the logs
C. Configure Amazon CIoudTrail to receive custom logs, use EMR to apply heuristics the logs
D. Setup an Auto Scaling group of EC2 syslogd servers, store the logs on S3, use EMR to apply heuristics on the logs

Answer: B

NEW QUESTION 183
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