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Exam : **AWS-Solutions-Architect-Associate**

Title : AWS Certified Solutions Architect - Associate (Released February 2018)

Vendor : Amazon

Version : DEMO

NO.1 A photo sharing service stores pictures in Amazon Simple Storage Service (S3) and allows application signin using an Open ID Connect compatible identity provider. Which AWS Security Token approach to temporary access should you use for the Amazon S3 operations?
A. SAML-based identity Federation
B. Cross-Account Access
C. AWS identity and Access Management roles
D. Web identity Federation
Answer: A

NO.2 For which of the following use cases are Simple Workflow Service (SWF) and Amazon EC2 an appropriate solution? Choose 2 answers
A. Using as an endpoint to collect thousands of data points per hour from a distributed fleet of sensors
B. Managing a multi-step and multi-decision checkout process of an e-commerce website
C. Orchestrating the execution of distributed and auditable business processes
D. Using as an SNS (Simple Notification Service) endpoint to trigger execution of video transcoding jobs
E. Using as a distributed session store for your web application
Answer: B,C

NO.3 A company needs to deploy services to an AWS region which they have not previously used. The company currently has an AWS identity and Access Management (IAM) role for the Amazon EC2 instances, which permits the instance to have access to Amazon DynamoDB. The company wants their EC2 instances in the new region to have the same privileges. How should the company achieve this?
A. Create a new IAM role and associated policies within the new region
B. Assign the existing IAM role to the Amazon EC2 instances in the new region
C. Copy the IAM role and associated policies to the new region and attach it to the instances
D. Create an Amazon Machine Image (AMI) of the instance and copy it to the desired region using the AMI Copy feature
Answer: B

NO.4 Which of the following services natively encrypts data at rest within an AWS region? Choose 2 answers
A. Amazon DynamoDB
B. Amazon CloudFront
C. Amazon Simple Queue Service
D. Amazon Glacier
E. AWS storage Gateway
Answer: D,E

NO.5 Which of the following requires a custom cloudwatch metric to monitor?
A. Memory utilization of an EC2 instance

B. CPU utilization of an EC2 instance
C. Disk usage activity of an EC2 instance
D. Data transfer of an EC2 instance
Answer: A

NO.6 You have a web application running on six Amazon EC2 instances, consuming about 45% of resources on each instance. You are using autoscaling to make sure that six instances are running at all times. The number of requests this application processes is consistent and does not experience spikes. The application is critical to your business and you want high availability at all times. you want the load to be distributed evenly between all instances. you also want to use the same Amazon Machine image(AMI) for all instances
.which of the following architectural choices should you make?
A. Deploy 2 EC2 instances in three regions and use Amazon Elastic Load Balancer
B. Deploy 6 EC2 instances in one availability zone and use Amazon Elastic Load Balancer
C. Deploy 3 EC2 instances in one availability zone and 3 in another availability zone and use Amazon Elastic Load Balancer
D. Deploy 3 EC2 instances in one region and 3 in another region and use Amazon Elastic Load Balancer
Answer: C

NO.7 What services will help identify Amazon EC2 instances with underutilized CPU capacity? Choose 2 answers
A. Cost Explorer
B. Amazon EC2 usage reports
C. AWS CloudTrail
D. Amazon CloudWatch
E. AWS Trusted Advisor
Answer: B,D

NO.8 Your company's IT policies mandate that all critical data must be duplicated in two physical locations at least 100 miles apart.
What storage option meets this requirement?
A. One Amazon S3 bucket
B. Two Amazon S3 buckets in the same region
C. One Amazon Glacier archive
D. Two Amazon S3 buckets in different regions
Answer: A

NO.9 You have been asked to design a NAT solution for your company's VPC-based web application. Traffic from the privatesubnets varies throughout the day from 500 Mbps to spikes of 7 Gbps.
What is the most cost-effective and scalable solution?
A. Create an Amazon EC2 NAT instance with a second elastic network (ENI) in a public subnet; route all private subnet Internet traffic through the NAT gateway.
B. Create an Auto Scaling group of Amazon EC2 NAT instances in a public subnet; route all private

subnet Internet traffic through the NAT gateway

C. Move the Internet gateway for the VPC to a public subnet; route all Internet traffic through the Internet gateway

D. Create a NAT gateway in a public subnet; route all private subnet Internet Traffic through the NAT gateway

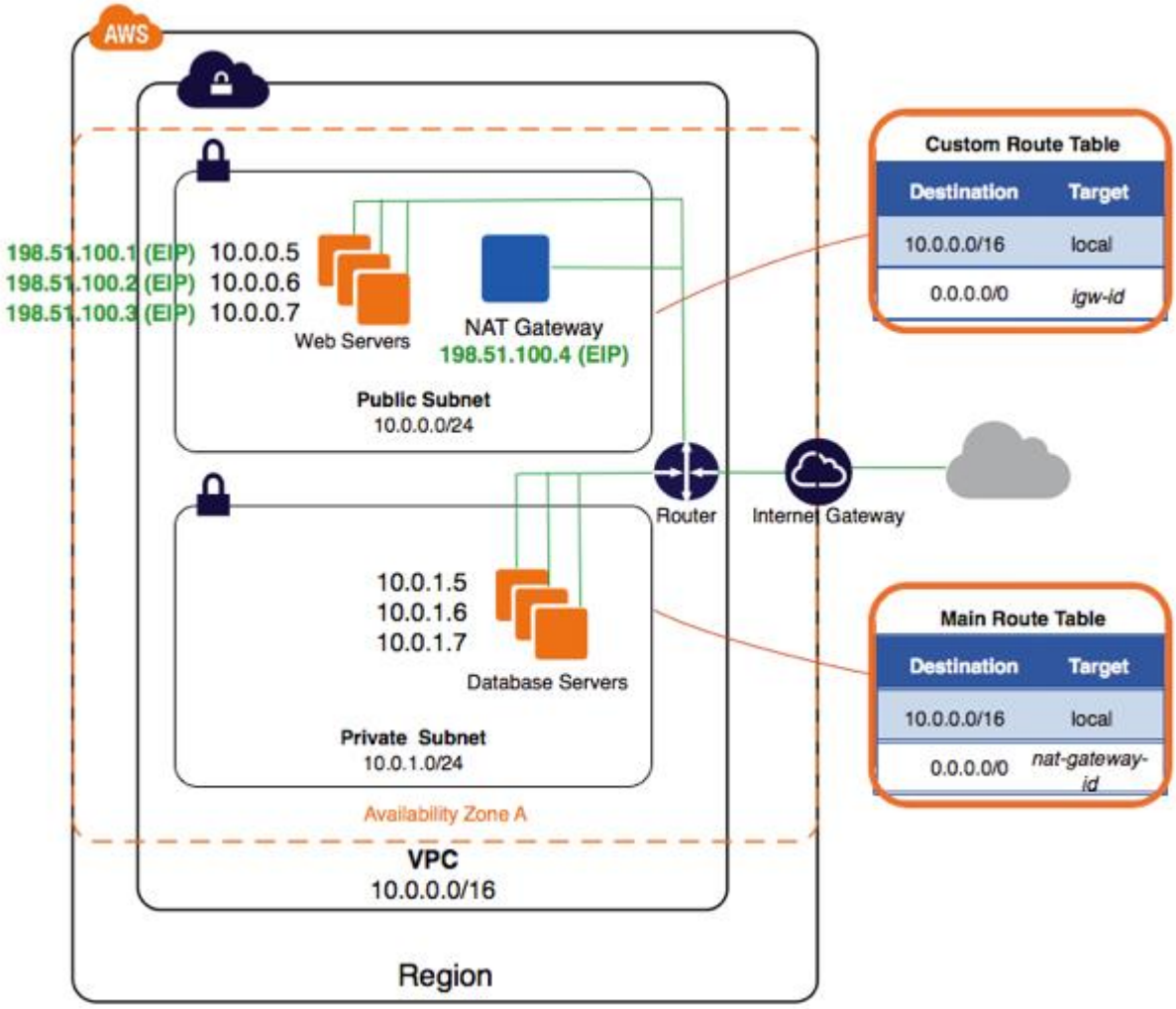
Answer: D

Explanation: Getting StartedLet's try to see how we can create and configure an AWS NAT Gateway:

* Login to the AWS console, select VPC service and click on NAT Gateways as shown below:Managed NAT gateway - dashboard
* Provide the necessary details, like subnet and Elastic IP, and create the NAT Gateway. You need the select the subnet which you want to be private subnet and your Elastic IP so that it can communicate to Internet.NAT Gateway - create
* Once created you will see this:NAT Gateway - success
* Once the NAT Gateway is created you can edit your routing table to send traffic destined for the Internet toward the gateway. The gateway's internal address will be chosen automatically, and will be in the same subnet as the gateway.

Once the NAT Gateway is configured, you are all set. Your private subnet instances should now be able to communicate with the Internet without much management, monitoring, and configuration overhead.

Sample NAT Gateway architecture:



NAT Gateway - design
Migrating from an existing NAT instanceIf you are already using a NAT instance in your VPC setup, it's time to migrate now, and I can tell you that it's not tough. You only need to make sure that you create the NAT Gateway in the same subnet as your existing NAT instance. Then you need to edit the route table by replacing the existing NAT reference with the internal address of the new gateway. I told you this was very straightforward. You will need to ensure that you don't have any critical tasks running at the time of migration, because changing a route from a NAT instance to the gateway can result in a dropped connection.
This feature was only very recently introduced by AWS, so it's definitely worth sharing. It can resolve lots of existing concerns. Do you have your own experience with this new feature? Why not share it with others.

NO.10 Your Amazon EC2 instances must access the AWS API, so you created a NAT gateway in an existing subnet. When you try to access the AWS API, you are unsuccessful.
What could be preventing access?
A. The instances need an IAM role granting access to the NAT gateway
B. The NAT gateway subnet does not have a route to an Internet gateway
C. The NAT gateway does not have a route to the virtual private gateway
D. The instances are not in the same subnet as the NAT gateway
Answer: B

NO.11 You manually launch a NAT AMI in a public subnet. The network in properly configured. Security groups and network access control lists are properly configured. Instances in a private subnet can access the NAT. The NAT can access the internet. However, private instances cannot access the internet. What additional step is required to allow access from the private instances?
A. Enable Source/Destination check on the private instances
B. Enable Source/Destination check on the NAT instance
C. Disable Source/Destination check on the private instance
D. Disable Source/Destination check on the NAT instance
Answer: D

NO.12 A customers needs to capture all client connection information from their load balancer every five minutes. The company wants to use data for analyzing traffic patterns and troubleshooting their applications. Which of the following options meets the customer requirements?
A. Enable access logs on the load balancer
B. Enable AWS CloudTrail for the load balancer
C. Enable Amazon CloudWatch metrics on the load balancer
D. Install the Amaozn CloudWatch Logs agent on the load balancer
Answer: B

NO.13 You have a content management system running on an Amazon EC2 instance that is approaching 100% CPU utilization. Which option will reduce load on the Amazon EC2 instance?
A. EC2Config service
B. IAM roles

C. User Data
D. AWS Config
Answer: C

NO.14 You have an application running in multiple Availability Zones, to confirm this application can continue to operate at full capacity without performance degradation or downtime. In the event of an Availability Zone failure. You must:
A. Use Spot instances to guarantee supplemental capacity
B. Use Auto Scaling to launch instances in other Availability Zones to replace lost capacity
C. Use dedicated instances in all Availability Zones
D. Have enough running EC2 instances in other Availability Zones
Answer: B

NO.15 You have configured mycorp.com as an Amazon route 53 private hosted zone for Amazon virtual private cloud. Amazon elastic compute cloud (EC2) instances in your eu-east-1 virtual private cloud successfully resolve to internal.mycorp.com. You are extending your infrastructure to a VPC in eu-west-1. Why are Amazon EC2 instance in eu-west-1 unable to resolve to internal.mycorp.com?
A. The VPC in eu-west 1 is not associated to the private hosted zone
B. The DHCP options set in eu-west-1 requires the private hosted zone name server IP addresses
C. The enableDnsHostnames attribute of the VPC in eu-west-1 should be set to false
D. A second private hosted zone for Amazon VPC is requires for eu-west-1
Answer: B

NO.16 A company is deploying a new two-tier web application in AWS. The company has limited staff and requires high availability, and the application requires complex queries and table joins. Which configuration provides the solution for the company's requirements?
A. MySQL Installed on two Amazon EC2 Instances in a single Availability Zone
B. Amazon RDS for MySQL with Multi-AZ
C. Amazon ElastiCache
D. Amazon DynamoDB
Answer: B

NO.17 Your Amazon RDS MySQL DB instance runs on the largest available instance type. The DB instance runs at near capacity for CPU and network bandwidth. You expect traffic to increase and are looking for ways you can continue to scale your database. Which strategies allow you to continue to scale and take on more traffic?
A. Create a cross-region read replica of the master database; configure the app to send read-only calls to the replica
B. Convert the DB instance to a m=Multi-AZ deployment; configure the app to send read- only calls to the standby
C. Create additional database accounts in the DB instance; configure the app servers to make calls using different account credentials
D. Create a read replica of the master database in another Availability Zone; configure the app to

send read-only calls to the replica.

E. Create an Amazon Elasticache cluster; configure the app to retrieve frequently accessed data and queries from the cache.

Answer: D,E

NO.18 A customer has a public-facing web application hosted on a single amazon Elastic compute Cloud (EC2) instance and serving videos directly from an amazon simple storage service bucket. Which of the following will restrict third parties from directly accessing the video assets in the bucket?

A. Use a bucket policy to only allow the public IP address of the Amazon EC2 instance hosting the customer website

B. Use a bucket policy to only allow referrals from the main website URL

C. Launch the website Amazon EC2 instance using an IAM role that is authorized to access the videos

D. restrict access to the bucket to the public CIDR range of the company locations

Answer: A

NO.19 An application on an Amazon EC2 instance routinely stops responding to requests and requires a reboot to recover. The application logs are already exported into Amazon CloudWatch, and you notice that the problem consistently follows the appearance of a specific message in the log. The application team is working to address the bug, but has not provided a date for the fix. What workaround can you implement to automate recovery of the instance until the fix is deployed?

A. Create an Amazon CloudWatch alarm on instance memory usage; based on that alarm, trigger an Amazon CloudWatch action to reboot the instance

B. Create an Amazon CloudWatch alarm on an Amazon CloudWatch Logs filter for that message; based on that alarm trigger an Amazon CloudWatch action to reboot the instance

C. Create an AWS CloudTrail alarm to detect the deadlock; based on that alarm, trigger an Amazon SNS message to the Operations team

D. Create an AWS CloudTrail alarm on low CPU; based on that alarm, trigger an Amazon SNS message to the Operations team

Answer: B

NO.20 A customer wants to leverage Amazon Simple Storage Service (S3) and Amazon Glacier as part of their backup and archive infrastructure. The customer plans to use third-party software to support this integration. Which approach will limit the access of the third party software to only the Amazon S3bucket named "company-backup"?

A. A custom bucket policy limited to the Amazon S3 API in the Amazon Glacier archive company-backup

B. A custom bucket policy limited to the Amazon S3 API in company-backup

C. A custom IAM user policy limited to the Amazon S3 API for the Amazon Glacier archive company-backup

D. A custom IAM user policy limited to the Amazon S3 API in company-backup

Answer: A

NO.21 You have a content management system running on an Amazon EC2 instance that is

approaching 100% CPU utilization. Which option will reduce load on the Amazon EC2 instance?
A. Create a new load balancer, and register the Amazon EC2 instqance with it
B. Create a CloudFront distribution, and configure the Amazon EC2 instance as the origin
C. Create an Auto Scaling group from the instance using the CreateAutoScalingGroup action
D. Create a launch configuration from the instance using the CreateLaunchConfiguration action
Answer: C

NO.22 A user in account A has created a bucket and added a bucket policy allowing all actions for a user in account B.
The user in account B has uploaded a file to the bucket, specifying Amazon S3 server-side encryption (SSE) and Amazon S3 reduced redundancy storage (RRS). Using the AWS management console, the user in account A attempts to download the file from the bucket but gets an "Access Denied" error. What is causing the error?
A. Account A user has not granted READ permission to itself
B. Account B user has not granted READ permission to account A user
C. SSE and RRS cannot be used on an object at the same time
D. An SSE object cannot be copied between two different accounts
Answer: B

NO.23 What are characteristics of Amazon S3? Choose 2 answers
A. S3 allows you to store objects of virtually unlimited size.
B. S3 offers Provisioned IOPS.
C. S3 allows you to store unlimited amounts of data.
D. S3 should be used to host a relational database.
E. Objects are directly accessible via a URL.
Answer: C,E
Reference:
http://docs.aws.amazon.com/AmazonCloudFront/latest/DeveloperGuide/private-content-restricting-access-to-s3.html

NO.24 How can you secure data at rest on an EBS volume?
A. Create an IAM policy that restricts read and write access to the volume
B. Use an encrypted file system on top of the EBS volume
C. Write the data randomly instead of sequentially
D. Encrypt the volume using the S3 server-side encryption service
E. Attach the volume to an insurance using EC2 SSL interface
Answer: B