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Amazon AWS Certified Solutions Architect - Professional Sample Questions

(Q160-Q165):

NEW QUESTION # 160

A company has an on-premises monitoring solution using a PostgreSQL database for persistence of events.

The database is unable to scale due to heavy ingestion and it frequently runs out of storage.

The company wants to create a hybrid solution and has already set up a VPN connection between its network and AWS. The solution should include the following attributes:

- * Managed AWS services to minimize operational complexity
- * A buffer that automatically scales to match the throughput of data and requires no on-going administration.
- * A visualization tool to create dashboards to observe events in near-real time.
- * Support for semi-structured JSON data and dynamic schemas.

Which combination of components will enable company to create a monitoring solution that will satisfy these requirements" (Select TWO.)

- A. Create an Amazon Kinesis data stream to buffer events Create an AWS Lambda function to process and transform events
- B. Use Amazon Kinesis Data Firehose to buffer events Create an AWS Lambda function to process and transform events
- C. Configure an Amazon Neptune DB instance to receive events Use Amazon QuickSight to read from the database and create near-real-time visualizations and dashboards
- D. Configure Amazon Elasticsearch Service (Amazon ES) to receive events Use the Kibana endpoint deployed with Amazon ES to create near-real-time visualizations and dashboards.
- E. Configure an Amazon Aurora PostgreSQL DB cluster to receive events Use Amazon QuickSight to read from the database and create near-real-time visualizations and dashboards

Answer: C,D

NEW QUESTION # 161

A company has an asynchronous HTTP application that is hosted as an AWS Lambda function. A public Amazon API Gateway endpoint invokes the Lambda function. The Lambda function and the API Gateway endpoint reside in the us-east-1 Region. A solutions architect needs to redesign the application to support failover to another AWS Region.

Which solution will meet these requirements?

- A. Deploy the Lambda function to the us-west-2 Region. Create an API Gateway endpoint in us-west-2 to direct traffic to the Lambda function in us-west-2. Configure AWS Global Accelerator and an Application Load Balancer to manage traffic across the two API Gateway endpoints.
- B. Create an Amazon Simple Queue Service (Amazon SQS) queue. Configure API Gateway to direct traffic to the SQS queue instead of to the Lambda function. Configure the Lambda function to pull messages from the queue for processing.
- C. Deploy the Lambda function and an API Gateway endpoint to the us-west-2 Region. Configure Amazon Route 53 to use a failover routing policy to route traffic for the two API Gateway endpoints.
- D. Create an API Gateway endpoint in the us-west-2 Region to direct traffic to the Lambda function in us-east-1. Configure Amazon Route 53 to use a failover routing policy to route traffic for the two API Gateway endpoints.

Answer: B

Explanation:

This solution allows for deploying the Lambda function and API Gateway endpoint to another region, providing a failover option in case of any issues in the primary region. Using Route 53's failover routing policy allows for automatic routing of traffic to the healthy endpoint, ensuring that the application is available even in case of issues in one region. This solution provides a cost-effective and simple way to implement failover while minimizing operational overhead.

NEW QUESTION # 162

How can multiple compute resources be used on the same pipeline in AWS Data Pipeline?

- A. You can use multiple compute resources on the same pipeline by defining multiple cluster definition files
- B. You can use multiple compute resources on the same pipeline by defining multiple clusters for your activity.
- C. You can use multiple compute resources on the same pipeline by defining multiple cluster objects in your definition file and associating the cluster to use for each activity via its On field.
- D. You cannot use multiple compute resources on the same pipeline.

Answer: C

Explanation:

Explanation

Multiple compute resources can be used on the same pipeline in AWS Data Pipeline by defining multiple cluster objects in your definition file and associating the cluster to use for each activity via its runs On field, which allows pipelines to combine AWS and on-premise resources, or to use a mix of instance types for their activities.

<https://aws.amazon.com/datapipeline/faqs/>

NEW QUESTION # 163

□ 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. Implement fault tolerance against EC2 instance failure since messages would remain in SQS and won't be lost if EC2 instances implement fault tolerance against SQS failure by backing up messages to S3.
- B. 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.
- C. Handle high priority jobs before lower priority jobs by assigning a priority metadata field to SQS messages.
- D. **Coordinate number of EC2 instances with number of job requests automatically thus Improving cost effectiveness.**
- E. Implement message passing between EC2 instances within a batch by exchanging messages through SQS.

Answer: D

Explanation:

Explanation

There are cases where a large number of batch jobs may need processing, and where the jobs may need to be re-prioritized.

For example, one such case is one where there are differences between different levels of services for unpaid users versus subscriber users (such as the time until publication) in services enabling, for example, presentation files to be uploaded for publication from a web browser. When the user uploads a presentation file, the conversion processes, for example, for publication are performed as batch processes on the system side, and the file is published after the conversion. Is it then necessary to be able to assign the level of priority to the batch processes for each type of subscriber?

Explanation of the Cloud Solution/Pattern

A queue is used in controlling batch jobs. The queue need only be provided with priority numbers. Job requests are controlled by the queue, and the job requests in the queue are processed by a batch server. In Cloud computing, a highly reliable queue is provided as a service, which you can use to structure a highly reliable batch system with ease. You may prepare multiple queues depending on priority levels, with job requests put into the queues depending on their priority levels, to apply prioritization to batch processes. The performance (number) of batch servers corresponding to a queue must be in accordance with the priority level thereof.

Implementation

In AWS, the queue service is the Simple Queue Service (SQS). Multiple SQS queues may be prepared to prepare queues for individual priority levels (with a priority queue and a secondary queue). Moreover, you may also use the message Delayed Send function to delay process execution.

Use SQS to prepare multiple queues for the individual priority levels.

Place those processes to be executed immediately (job requests) in the high priority queue.

Prepare numbers of batch servers, for processing the job requests of the queues, depending on the priority levels.

Queues have a message "Delayed Send" function. You can use this to delay the time for starting a process.

Configuration

□ Benefits

You can increase or decrease the number of servers for processing jobs to change automatically the processing speeds of the priority queues and secondary queues.

You can handle performance and service requirements through merely increasing or decreasing the number of EC2 instances used in job processing.

Even if an EC2 were to fail, the messages (jobs) would remain in the queue service, enabling processing to be continued immediately upon recovery of the EC2 instance, producing a system that is robust to failure.

Cautions

Depending on the balance between the number of EC2 instances for performing the processes and the number of messages that are queued, there may be cases where processing in the secondary queue may be completed first, so you need to monitor the processing speeds in the primary queue and the secondary queue.

NEW QUESTION # 164

A company runs a public-facing application that uses a Java-based web service via a RESTful API. It is hosted on Apache Tomcat on a single server in a data center that runs consistently at 30% CPU utilization. Use of the API is expected to increase by 10 times with a new product launch. The business wants to migrate the application to AWS with no disruption and needs it to scale to meet demand. The company has already decided to use Amazon Route 53 and CNAME records to redirect traffic. How can these requirements be met with the LEAST amount of effort?

- A. Lift and shift the Apache server to the cloud using AWS SMS. Then switch the application to direct web service traffic to the new instance
- B. Create a Docker image and migrate the image to Amazon ECS. Then change the application code to direct web service queries to the ECS container
- C. Modify the application to call the web service via Amazon API Gateway. Then create a new AWS Lambda Java function to run the Java web service code. After testing, change API Gateway to use the Lambda function
- D. Use AWS Elastic Beanstalk to deploy the Java web service and enable Auto Scaling. Then switch the application to use the new web service

Answer: D

NEW QUESTION # 165

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