SAP-C01^{Q&As}

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QUESTION 1

A company needs to establish a connection from its on-premises data center to AWS. The company needs to connect all of its VPCs that are located in different AWS Regions with transitive routing capabilities between VPC networks. The company also must reduce network outbound traffic costs, increase bandwidth throughput, and provide a consistent network experience for end users.

Which solution will meet these requirements?

A. Create an AWS Site-to-Site VPN connection between the on-premises data center and a new central VPC. Create VPC peering connections that initiate from the central VPC to all other VPCs.

B. Create an AWS Direct Connect connection between the on-premises data center and AWS. Provision a transit VIF, and connect it to a Direct Connect gateway. Connect the Direct Connect gateway to all the other VPCs by using a transit gateway in each Region.

C. Create an AWS Site-to-Site VPN connection between the on-premises data center and a new central VPC. Use a transit gateway with dynamic routing. Connect the transit gateway to all other VPCs.

D. Create an AWS Direct Connect connection between the on-premises data center and AWS. Establish an AWS Site-to-Site VPN connection between all VPCs in each Region. Create VPC peering connections that initiate from the central VPC to all other VPCs.

Correct Answer: A

QUESTION 2

An IoT company has rolled out a fleet of sensors for monitoring temperatures in remote locations. Each device connects to AWS IoT Core and sends a message 30 seconds, updating an Amazon DynamoDB table. A System Administrator users AWS IoT to verify the devices are still sending messages to AWS IoT Core: the database is not updating.

What should a Solutions Architect check to determine why the database is not being updated?

A. Verify the AWS IoT Device Shadow service is subscribed to the appropriate topic and is executing the AWS Lambda function.

B. Verify that AWS IoT monitoring shows that the appropriate AWS IoT rules are being executed, and that the AWS IoT rules are enabled with the correct rule actions.

C. Check the AWS IoT Fleet indexing service and verify that the thing group has the appropriate IAM role to update DynamoDB.

D. Verify that AWS IoT things are using MQTT instead of MQTT over WebSocket, then check that the provisioning has the appropriate policy attached.

Correct Answer: D

QUESTION 3

A company\\'s application is increasingly popular and experiencing latency because of high volume reads on the database server.

The service has the following properties:

1.

 A highly available REST API hosted in one region using Application Load Balancer (ALB) with auto scaling.

2.

 A MySQL database hosted on an Amazon EC2 instance in a single Availability Zone.

The company wants to reduce latency, increase in-region database read performance, and have multi-region disaster recovery capabilities that can perform a live recovery automatically without any data or performance loss (HA/DR).

Which deployment strategy will meet these requirements?

A. Use AWS CloudFormation StackSets to deploy the API layer in two regions. Migrate the database to an Amazon Aurora with MySQL database cluster with multiple read replicas in one region and a read replica in a different region than the source database cluster. Use Amazon Route 53 health checks to trigger a DNS failover to the standby region if the health checks to the primary load balancer fail. In the event of Route 53 failover, promote the cross-region database replica to be the master and build out new read replicas in the standby region.

B. Use Amazon ElastiCache for Redis Multi-AZ with an automatic failover to cache the database read queries. Use AWS OpsWorks to deploy the API layer, cache layer, and existing database layer in two regions. In the event of failure, use Amazon Route 53 health checks on the database to trigger a DNS failover to the standby region if the health checks in the primary region fail. Back up the MySQL database frequently, and in the event of a failure in an active region, copy the backup to the standby region and restore the standby database.

C. Use AWS CloudFormation StackSets to deploy the API layer in two regions. Add the database to an Auto Scaling group. Add a read replica to the database in the second region. Use Amazon Route 53 health checks on the database to trigger a DNS failover to the standby region if the health checks in the primary region fail. Promote the cross-region database replica to be the master and build out new read replicas in the standby region.

D. Use Amazon ElastiCache for Redis Multi-AZ with an automatic failover to cache the database read queries. Use AWS OpsWorks to deploy the API layer, cache layer, and existing database layer in two regions. Use Amazon Route 53 health checks on the ALB to trigger a DNS failover to the standby region if the health checks in the primary region fail. Back up the MySQL database frequently, and in the event of a failure in an active region, copy the backup to the standby region and restore the standby database.

Correct Answer: A

QUESTION 4

A company runs many workloads on AWS and uses AWS Organizations to manage its accounts. The workloads are hosted on Amazon EC2, AWS Fargate, and AWS Lambda. Some of the workloads have unpredictable demand. Accounts record high usage in some months and low usage in other months.

The company wants to optimize its compute costs over the next 3 years. A solutions architect obtains a 6month average for each of the accounts across the organization to calculate usage.

Which solution will provide the MOST cost savings for all the organization\\\'s compute usage?

A. Purchase Reserved Instances for the organization to match the size and number of the most common EC2 instances from the member accounts.

B. Purchase a Compute Savings Plan for the organization from the management account by using the recommendation

at the management account level.

C. Purchase Reserved Instances for each member account that had high EC2 usage according to the data from the last 6 months.

D. Purchase an EC2 Instance Savings Plan for each member account from the management account based on EC2 usage data from the last 6 months.

Correct Answer: A

QUESTION 5

A three-tier web application runs on Amazon EC2 instances. Cron daemons are used to trigger scripts that collect the web server, application, and database logs and send them to a centralized location every hour. Occasionally, scaling events or unplanned outages have caused the instances to stop before the latest logs were collected, and the log files were lost.

Which of the following options is the MOST reliable way of collecting and preserving the log files?

A. Update the cron jobs to run every 5 minutes instead of every hour to reduce the possibility of log messages being lost in an outage.

B. Use Amazon CloudWatch Events to trigger Amazon Systems Manager Run Command to invoke the log collection scripts more frequently to reduce the possibility of log messages being lost in an outage.

C. Use the Amazon CloudWatch Logs agent to stream log messages directly to CloudWatch Logs. Configure the agent with a batch count of 1 to reduce the possibility of log messages being lost in an outage.

D. Use Amazon CloudWatch Events to trigger AWS Lambda to SSH into each running instance and invoke the log collection scripts more frequently to reduce the possibility of log messages being lost in an outage.

Correct Answer: C

Reference: https://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/AgentReference.html

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