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To prepare for the SAP-C02 exam, candidates are encouraged to have hands-on experience designing and deploying complex systems on AWS. AWS offers a range of training and certification resources, including classroom training, online training, and self-

paced labs. In addition, there are several third-party training providers that offer courses and study materials specifically tailored to the SAP-C02 Exam.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q172-Q177):

NEW QUESTION # 172

An online magazine will launch its latest edition this month. This edition will be the first to be distributed globally. The magazine's dynamic website currently uses an Application Load Balancer in front of the web tier, a fleet of Amazon EC2 instances for web and application servers, and Amazon Aurora MySQL. Portions of the website include static content and almost all traffic is read-only. The magazine is expecting a significant spike in internet traffic when the new edition is launched. Optimal performance is a top priority for the week following the launch.

Which combination of steps should a solutions architect take to reduce system response times for a global audience? (Choose two.)

- A. Migrate the database from Amazon Aurora to Amazon RDS for MySQL. Ensure all three of the application tiers - web, application, and database - are in private subnets.
- **B. Introduce Amazon Route 53 with latency-based routing and Amazon CloudFront distributions. Ensure the web and application tiers are each in Auto Scaling groups.**
- C. Ensure the web and application tiers are each in Auto Scaling groups. Introduce an AWS Direct Connect connection. Deploy the web and application tiers in Regions across the world.
- D. Use logical cross-Region replication to replicate the Aurora MySQL database to a secondary Region. Replace the web servers with Amazon S3. Deploy S3 buckets in cross-Region replication mode.
- **E. Use an Aurora global database for physical cross-Region replication. Use Amazon S3 with cross-Region replication for static content and resources. Deploy the web and application tiers in Regions across the world.**

Answer: B,E

NEW QUESTION # 173

A manufacturing company is building an inspection solution for its factory. The company has IP cameras at the end of each assembly line. The company has used Amazon SageMaker to train a machine learning (ML) model to identify common defects from still images.

The company wants to provide local feedback to factory workers when a defect is detected. The company must be able to provide this feedback even if the factory's internet connectivity is down. The company has a local Linux server that hosts an API that provides local feedback to the workers.

How should the company deploy the ML model to meet these requirements?

- A. Set up an Amazon Kinesis video stream from each IP camera to AWS. Use Amazon EC2 instances to take still images of the streams. Upload the images to an Amazon S3 bucket. Deploy a SageMaker endpoint with the ML model. Invoke an AWS Lambda function to call the inference endpoint when new images are uploaded. Configure the Lambda function to call the local API when a defect is detected.
- B. Deploy Amazon Monitron devices on each IP camera. Deploy an Amazon Monitron Gateway on premises. Deploy the ML model to the Amazon Monitron devices. Use Amazon Monitron health state alarms to call the local API from an AWS Lambda function when a defect is detected.
- **C. Deploy AWS IoT Greengrass on the local server. Deploy the ML model to the Greengrass server. Create a Greengrass component to take still images from the cameras and run inference. Configure the component to call the local API when a defect is detected.**
- D. Order an AWS Snowball device. Deploy a SageMaker endpoint the ML model and an Amazon EC2 instance on the Snowball device. Take still images from the cameras. Run inference from the EC2 instance. Configure the instance to call the local API when a defect is detected.

Answer: C

Explanation:

The company should use AWS IoT Greengrass to deploy the ML model to the local server and provide local feedback to the factory workers. AWS IoT Greengrass is a service that extends AWS cloud capabilities to local devices, allowing them to collect and analyze data closer to the source of information, react autonomously to local events, and communicate securely with each other on local networks¹. AWS IoT Greengrass also supports ML inference at the edge, enabling devices to run ML models locally without requiring internet connectivity².

The other options are not correct because:

Setting up an Amazon Kinesis video stream from each IP camera to AWS would not work if the factory's internet connectivity is

down. It would also incur unnecessary costs and latency to stream video data to the cloud and back.

Ordering an AWS Snowball device would not be a scalable or cost-effective solution for deploying the ML model. AWS Snowball is a service that provides physical devices for data transfer and edge computing, but it is not designed for continuous operation or frequent updates³.

Deploying Amazon Monitron devices on each IP camera would not work because Amazon Monitron is a service that monitors the condition and performance of industrial equipment using sensors and machine learning, not cameras⁴.

Reference:

<https://aws.amazon.com/greengrass/>

<https://docs.aws.amazon.com/greengrass/v2/developerguide/use-machine-learning-inference.html>

<https://aws.amazon.com/snowball/>

<https://aws.amazon.com/monitron/>

NEW QUESTION # 174

A company is migrating some of its applications to AWS. The company wants to migrate and modernize the applications quickly after it finalizes networking and security strategies. The company has set up an AWS Direct Connection connection in a central network account.

The company expects to have hundreds of AWS accounts and VPCs in the near future. The corporate network must be able to access the resources on AWS seamlessly and also must be able to communicate with all the VPCs. The company also wants to route its cloud resources to the internet through its on-premises data center.

Which combination of steps will meet these requirements? (Choose three.)

- A. Create a Direct Connect gateway and a transit gateway in the central network account. Attach the transit gateway to the Direct Connect gateway by using a transit VIF.
- B. Create a Direct Connect gateway in the central account. In each of the accounts, create an association proposal by using the Direct Connect gateway and the account ID for every virtual private gateway.
- C. Provision VPC peering as necessary.
- D. Provision an internet gateway. Attach the internet gateway to subnets. Allow internet traffic through the gateway.
- E. Share the transit gateway with other accounts. Attach VPCs to the transit gateway.
- F. Provision only private subnets. Open the necessary route on the transit gateway and customer gateway to allow outbound internet traffic from AWS to flow through NAT services that run in the data center.

Answer: A,E,F

Explanation:

Explanation

Option A is incorrect because creating a Direct Connect gateway in the central account and creating an association proposal by using the Direct Connect gateway and the account ID for every virtual private gateway does not enable active-passive failover between the regions. A Direct Connect gateway is a globally available resource that enables you to connect your AWS Direct Connect connection over a private virtual interface (VIF) to one or more VPCs in any AWS Region. A virtual private gateway is the VPN concentrator on the Amazon side of a VPN connection. You can associate a Direct Connect gateway with either a transit gateway or a virtual private gateway. However, a Direct Connect gateway does not provide any load balancing or failover capabilities by itself. Option B is correct because creating a Direct Connect gateway and a transit gateway in the central network account and attaching the transit gateway to the Direct Connect gateway by using a transit VIF meets the requirement of enabling the corporate network to access the resources on AWS seamlessly and also to communicate with all the VPCs. A transit VIF is a type of private VIF that you can use to connect your AWS Direct Connect connection to a transit gateway or a Direct Connect gateway. A transit gateway is a network transit hub that you can use to interconnect your VPCs and on-premises networks. By using a transit VIF, you can route traffic between your on-premises network and multiple VPCs across different AWS accounts and Regions through a single connection²³. Option C is incorrect because provisioning an internet gateway, attaching the internet gateway to subnets, and allowing internet traffic through the gateway does not meet the requirement of routing cloud resources to the internet through its on-premises data center. An internet gateway is a horizontally scaled, redundant, and highly available VPC component that allows communication between your VPC and the internet. An internet gateway serves two purposes: to provide a target in your VPC route tables for internet-routable traffic, and to perform network address translation (NAT) for instances that have been assigned public IPv4 addresses. By using an internet gateway, you are routing cloud resources directly to the internet, not through your on-premises data center.

Option D is correct because sharing the transit gateway with other accounts and attaching VPCs to the transit gateway meets the requirement of enabling the corporate network to access the resources on AWS seamlessly and also to communicate with all the VPCs. You can share your transit gateway with other AWS accounts within the same organization by using AWS Resource Access Manager (AWS RAM). This allows you to centrally manage connectivity from multiple accounts without having to create individual peering connections between VPCs or duplicate network appliances in each account.

You can attach VPCs from different accounts and Regions to your shared transit gateway and enable routing between them.

Option E is incorrect because provisioning VPC peering as necessary does not meet the requirement of enabling the corporate network to access the resources on AWS seamlessly and also to communicate with all the VPCs. VPC peering is a networking connection between two VPCs that enables you to route traffic between them using private IPv4 addresses or IPv6 addresses. You can create a VPC peering connection between your own VPCs, or with a VPC in another AWS account within a single Region. However, VPC peering does not allow you to route traffic from your on-premises network to your VPCs or between multiple Regions. You would need to create multiple VPN connections or Direct Connect connections for each VPC peering connection, which increases operational complexity and costs.

Option F is correct because provisioning only private subnets, opening the necessary route on the transit gateway and customer gateway to allow outbound internet traffic from AWS to flow through NAT services that run in the data center meets the requirement of routing cloud resources to the internet through its on-premises data center. A private subnet is a subnet that's associated with a route table that has no route to an internet gateway. Instances in a private subnet can communicate with other instances in the same VPC but cannot access resources on the internet directly. To enable outbound internet access from instances in private subnets, you can use NAT devices such as NAT gateways or NAT instances that are deployed in public subnets. A public subnet is a subnet that's associated with a route table that has a route to an internet gateway. Alternatively, you can use your on-premises data center as a NAT device by configuring routes on your transit gateway and customer gateway that direct outbound internet traffic from your private subnets through your VPN connection or Direct Connect connection. This way, you can route cloud resources to the internet through your on-premises data center instead of using an internet gateway.

References: 1:

<https://docs.aws.amazon.com/directconnect/latest/UserGuide/direct-connect-gateways-intro.html> 2:

<https://docs.aws.amazon.com/directconnect/latest/UserGuide/direct-connect-transit-virtual-interfaces.html> 3:

<https://docs.aws.amazon.com/vpc/latest/tgw/what-is-transit-gateway.html> :

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Internet_Gateway.html :

<https://docs.aws.amazon.com/vpc/latest/tgw/tgw-sharing.html> :

<https://docs.aws.amazon.com/vpc/latest/peering/what-is-vpc-peering.html> :

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Scenario2.html :

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_Scenario3.html :

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_NAT_Instance.html :

https://docs.aws.amazon.com/vpc/latest/userguide/VPC_NAT_Gateway.html

NEW QUESTION # 175

A Solutions Architect is working with a company that is extremely sensitive to its IT costs and wishes to implement controls that will result in a predictable AWS spend each month.

Which combination of steps can help the company control and monitor its monthly AWS usage to achieve a cost that is as close as possible to the target amount? (Choose three.)

- A. Define 'workload' as a cost allocation tag in the AWS Billing and Cost Management console.
- B. Place conditions in the users' IAM policies that limit the number of instances they are able to launch.
- C. Purchase all upfront Reserved Instances that cover 100% of the account's expected Amazon EC2 usage.
- D. Set up AWS Budgets to alert and notify when a given workload is expected to exceed a defined cost.
- E. Implement an IAM policy that requires users to specify a 'workload' tag for cost allocation when launching Amazon EC2 instances.
- F. Contact AWS Support and ask that they apply limits to the account so that users are not able to launch more than a certain number of instance types.

Answer: A,D,E

Explanation:

B: not feasible.

C: Not everything is applicable to RI. E.g. S3 does not have RI.

D: If they chose a very big instance, the bill could still be big.

NEW QUESTION # 176

A solutions architect is reviewing a company's process for taking snapshots of Amazon RDS DB instances.

The company takes automatic snapshots every day and retains the snapshots for 7 days.

The solutions architect needs to recommend a solution that takes snapshots every 6 hours and retains the snapshots for 30 days. The company uses AWS Organizations to manage all of its AWS accounts. The company needs a consolidated view of the health of the RDS snapshots.

Which solution will meet these requirements with the LEAST operational overhead?

- A. Turn on the cross-account management feature in Amazon RDS. Create a snapshot global policy that specifies the frequency and retention requirements. Use the RDS console in the management account to monitor the status of the backups.
- B. Configure AWS Backup in each account. Create an Amazon Data Lifecycle Manager lifecycle policy that specifies the frequency and retention requirements. Specify the DB instances as the target resource. Use the Amazon Data Lifecycle Manager console in each member account to monitor the status of the backups.
- **C. Turn on the cross-account management feature in AWS Backup. Create a backup plan that specifies the frequency and retention requirements. Add a tag to the DB instances. Apply the backup plan by using tags. Use AWS Backup to monitor the status of the backups.**
- D. Turn on the cross-account management feature in AWS CloudFormation. From the management account, deploy a CloudFormation stack set that contains a backup plan from AWS Backup that specifies the frequency and retention requirements. Create an AWS Lambda function in the management account to monitor the status of the backups. Create an Amazon EventBridge rule in each account to run the Lambda function on a schedule.

Answer: C

Explanation:

Turning on the cross-account management feature in AWS Backup will enable managing and monitoring backups across multiple AWS accounts that belong to the same organization in AWS Organizations¹. Creating a backup plan that specifies the frequency and retention requirements will enable taking snapshots every 6 hours and retaining them for 30 days². Adding a tag to the DB instances will enable applying the backup plan by using tags². Using AWS Backup to monitor the status of the backups will enable having a consolidated view of the health of the RDS snapshots¹.

NEW QUESTION # 177

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