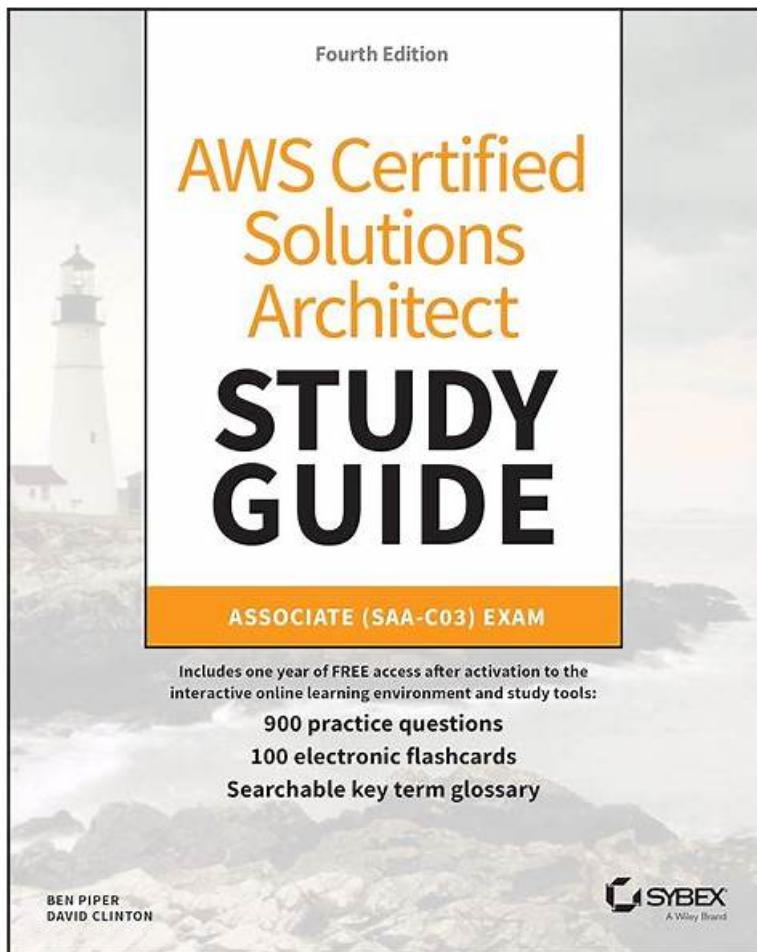


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Amazon AWS Certified Solutions Architect - Associate Sample Questions (Q475-Q480):

NEW QUESTION # 475

[Design Cost-Optimized Architectures]

A company needs to minimize the cost of its 1 Gbps AWS Direct Connect connection. The company's average connection utilization is less than 10%. A solutions architect must recommend a solution that will reduce the cost without compromising security. Which solution will meet these requirements?

- A. Contact an AWS Direct Connect Partner to order a 1 Gbps connection. Share the connection with another AWS account.
- B. Set up a new 200 Mbps Direct Connect connection in the AWS Management Console.
- **C. Contact an AWS Direct Connect Partner to order a 200 Mbps hosted connection for an existing AWS account.**
- D. Set up a new 1 Gbps Direct Connect connection. Share the connection with another AWS account.

Answer: C

Explanation:

company need to setup a cheaper connection (200 M) but B is incorrect because you can only order port speeds of 1, 10, or 100 Gbps for more flexibility you can go with hosted connection, You can order port speeds between 50 Mbps and 10 Gbps.<https://docs.aws.amazon.com/whitepapers/latest/aws-vpc-connectivity-options/aws-direct-connect.html>

NEW QUESTION # 476

A financial services company plans to launch a new application on AWS to handle sensitive financial transactions. The company will deploy the application on Amazon EC2 instances. The company will use Amazon RDS for MySQL as the database. The company's security policies mandate that data must be encrypted at rest and in transit.

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

- A. Configure encryption at rest for Amazon RDS for MySQL by using AWS KMS managed keys Configure a VPN connection to enable private connectivity to encrypt data in transit.
- **B. Configure encryption at rest for Amazon RDS for MySQL by using AWS KMS managed keys.**
Configure AWS Certificate Manager (ACM) SSL/TLS certificates for encryption in transit.
- C. Implement third-party application-level data encryption before storing data in Amazon RDS for MySQL. Configure AWS Certificate Manager (ACM) SSL/TLS certificates for encryption in transit.
- D. Configure encryption at rest for Amazon RDS for MySQL by using AWS KMS managed keys.
Configure IPsec tunnels for encryption in transit

Answer: B

Explanation:

This solution provides encryption at rest and in transit with the least operational overhead while adhering to the company's security policies.

Encryption at Rest: Amazon RDS for MySQL can be configured to encrypt data at rest by using AWS Key Management Service (KMS) managed keys. This encryption is applied automatically to all data stored on disk, including backups, read replicas, and snapshots. This solution requires minimal operational overhead because AWS manages the encryption and key management process.

Encryption in Transit: AWS Certificate Manager (ACM) allows you to provision, manage, and deploy SSL/TLS certificates seamlessly. These certificates can be used to encrypt data in transit by configuring the MySQL instance to use SSL/TLS for connections. This setup ensures that data is encrypted between the application and the database, protecting it from interception during transmission.

* Why Not Other Options?:

* Option B (IPsec tunnels): While IPsec tunnels encrypt data in transit, they are more complex to manage and require additional configuration and maintenance, leading to higher operational overhead.

* Option C (Third-party application-level encryption): Implementing application-level encryption adds complexity, requires code changes, and increases operational overhead.

* Option D (VPN for encryption): A VPN solution for encrypting data in transit is unnecessary and adds additional complexity without providing any benefit over SSL/TLS, which is simpler to implement and manage.

AWS References:

Amazon RDS Encryption - Information on how to configure and use encryption for Amazon RDS.

AWS Certificate Manager (ACM) - Details on using ACM to manage SSL/TLS certificates for securing data in transit.

NEW QUESTION # 477

A company runs an application on several Amazon EC2 instances. Multiple Amazon Elastic Block Store (Amazon EBS) volumes are attached to each EC2 instance. The company needs to back up the configurations and the data of the EC2 instances every night. The application must be recoverable in a secondary AWS Region.

Which solution will meet these requirements in the MOST operationally efficient way?

- A. Configure an AWS Lambda function to take nightly snapshots of the application's EBS volumes and to copy the snapshots to a secondary Availability Zone.
- B. Configure an AWS Lambda function to take nightly snapshots of the application's EBS volumes and to copy the snapshots to a secondary Region.
- C. **Create a backup plan in AWS Backup to take nightly backups. Copy the backups to a secondary Region. Add the EC2 instances to a resource assignment as part of the backup plan.**
- D. Create a backup plan in AWS Backup to take nightly backups. Copy the backups to a secondary Region. Add the EBS volumes to a resource assignment as part of the backup plan.

Answer: C

Explanation:

AWS Backup is a fully managed backup service that can create backup plans for EC2 instances, including both instance configurations and attached EBS volumes, with scheduled and cross-Region copy capabilities. By adding the EC2 instances to the resource assignment in the backup plan, AWS Backup automatically backs up all configurations and attached EBS volumes, and can copy backups to a secondary Region for disaster recovery, providing the highest operational efficiency with the least manual effort.

AWS Documentation Extract:

"AWS Backup provides fully managed backup for EC2 instances and attached EBS volumes, with scheduling, retention, and cross-Region copy built in. By adding the EC2 instance as a resource, the backup includes both configuration and attached volumes." (Source: AWS Backup documentation) A, D: Custom Lambda scripts increase operational overhead and are not as integrated or robust as AWS Backup.

C: Assigning only EBS volumes does not include the EC2 instance configuration, which is needed for full recovery.

NEW QUESTION # 478

[Design High-Performing Architectures]

A development team has launched a new application that is hosted on Amazon EC2 instances inside a development VPC. A solution architect needs to create a new VPC in the same account. The new VPC will be peered with the development VPC. The VPC CIDR block for the development VPC is 192.168.0.0/24. The solutions architect needs to create a CIDR block for the new VPC. The CIDR block must be valid for a VPC peering connection to the development VPC.

What is the SMALLEST CIDR block that meets these requirements?

- A. 192.168.1.0/32
- B. 192.168.0.0/24
- C. 10.0.1.0/32
- D. **10.0.1.0/24**

Answer: D

Explanation:

The allowed block size is between a /28 netmask and /16 netmask. The CIDR block must not overlap with any existing CIDR block that's associated with the VPC.<https://docs.aws.amazon.com/vpc/latest/userguide/configure-your-vpc.html>

NEW QUESTION # 479

A company wants to restrict access to the content of one of its main web applications and to protect the content by using authorization techniques available on AWS. The company wants to implement a serverless architecture and an authentication solution

for fewer than 100 users. The solution needs to integrate with the main web application and serve web content globally. The solution must also scale as to company's user base grows while providing lowest login latency possible.

- A. Use Amazon Cognito for authentication Use Lambda@Edge for authorization Use Amazon CloudFront 10 serve the web application globally
- B. Use Amazon Cognito for authentication Use AWS Lambda for authorization Use Amazon S3 Transfer Acceleration 10 serve the web application globally.
- C. Use AWS Directory Service for Microsoft Active Directory for authentication Use Lambda@Edge for authorization Use AWS Elastic Beanstalk to serve the web application.
- D. Use AWS Directory Service for Microsoft Active Directory for authentication Use AWS Lambda for authorization Use an Application Load Balancer to serve the web application globally

Answer: A

Explanation:

Explanation

<https://aws.amazon.com/blogs/networking-and-content-delivery/adding-http-security-headers-using-lambdaedge> Amazon CloudFront is a global content delivery network (CDN) service that can securely deliver web content, videos, and APIs at scale. It integrates with Cognito for authentication and with Lambda@Edge for authorization, making it an ideal choice for serving web content globally. Lambda@Edge is a service that lets you run AWS Lambda functions globally closer to users, providing lower latency and faster response times. It can also handle authorization logic at the edge to secure content in CloudFront. For this scenario, Lambda@Edge can provide authorization for the web application while leveraging the low-latency benefit of running at the edge.

NEW QUESTION # 480

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