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Our Amazon SAP-C02 exam dumps give help to give you an idea about the actual AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam. You can attempt multiple AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam questions on the software to improve your performance. DumpTorrent has many AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) practice questions that reflect the pattern of the real AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam. DumpTorrent allows you to create a AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam dumps according to your preparation. It is easy to create the Amazon SAP-C02 practice questions by following just a few simple steps. Our AWS Certified Solutions Architect - Professional (SAP-C02) (SAP-C02) exam dumps are customizable based on the time and type of questions.

The Amazon SAP-C02 exam is intended for experienced IT professionals who have a minimum of two years of hands-on experience in designing and deploying AWS-based applications and architectures. SAP-C02 exam measures the candidate's ability to design and deploy complex AWS-based systems and applications, as well as their ability to provide guidance and recommendations to stakeholders on the best practices for AWS design and deployment.

Amazon SAP-C02 certification exam is designed to test the skills and knowledge of professionals who are seeking advanced-level certification as an AWS Solutions Architect. AWS Certified Solutions Architect - Professional (SAP-C02) certification is ideal for those who have already obtained the AWS Certified Solutions Architect - Associate certification and want to take their expertise to the next level. The SAP-C02 Exam is designed to test candidates on their ability to design and deploy highly scalable, fault-tolerant, and secure applications on AWS.

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The SAP-C02 exam is the updated version of the previous SAP-C01 exam, and it is designed to test the candidate's knowledge of the latest AWS services and best practices. SAP-C02 exam consists of multiple-choice and multiple-response questions, and it is timed for 180 minutes. SAP-C02 exam is available in English, Japanese, Korean, and Simplified Chinese. The SAP-C02 Certification is a valuable asset for professionals who are looking to advance their careers in AWS and want to demonstrate their expertise in designing and deploying scalable and reliable solutions on the AWS platform.

Amazon AWS Certified Solutions Architect - Professional (SAP-C02) Sample Questions (Q168-Q173):

NEW QUESTION # 168

A software development company has multiple engineers who ate working remotely. The company is running Active Directory Domain Services (AD DS) on an Amazon EC2 instance. The company's security policy states that al internal, nonpublic services that are deployed in a VPC must be accessible through a VPN. Multi-factor authentication (MFA) must be used for access to a VPN.
What should a solutions architect do to meet these requirements?

- A. Create an AWS Client VPN endpoint Create an AD Connector directory tor integration with AD DS. Enable MFA tor AD Connector. Use AWS Client VPN to establish a VPN connection.
- B. Create an AWS Sire-to-Site VPN connection. Configure Integration between a VPN and AD DS. Use an Amazon Workspaces client with MFA support enabled to establish a VPN connection.
- C. Create an Amazon WorkLink endpoint. Configure integration between Amazon WorkLink and AD DS. Enable MFA in Amazon WorkLink. Use AWS Client VPN to establish a VPN connection.
- D. Create multiple AWS Site-to-Site VPN connections by using AWS VPN CloudHub. Configure integration between AWS VPN CloudHub and AD DS. Use AWS Copilot to establish a VPN connection.

Answer: A

NEW QUESTION # 169

A company is using AWS CodePipeline for the CI/CD of an application to an Amazon EC2 Auto Scaling group. All AWS resources are defined in AWS CloudFormation templates. The application artifacts are stored in an Amazon S3 bucket and deployed to the Auto Scaling group using instance user data scripts. As the application has become more complex, recent resource changes in the CloudFormation templates have caused unplanned downtime.
How should a solutions architect improve the CI/CD pipeline to reduce the likelihood that changes in the templates will cause downtime?

- A. Implement automated testing using AWS CodeBuild in a test environment.
  Use CloudFormation change sets to evaluate changes before deployment.
  Use AWS CodeDeploy to leverage blue/green deployment patterns to allow evaluations and the ability to revert changes, if needed.
- B. Adapt the deployment scripts to detect and report CloudFormation error conditions when performing deployments.
  Write test plans for a testing team to execute in a non-production environment before approving the change for production.
- C. Use AWS CodeDeploy and a blue/green deployment pattern with CloudFormation to replace the user data deployment scripts.
  Have the operators log in to running instances and go through a manual test plan to verify the application is running as expected.
- D. Use plugins for the integrated development environment (IDE) to check the templates for errors, and use the AWS CLI to validate that the templates are correct.
  Adapt the deployment code to check for error conditions and generate notifications on errors.
  Deploy to a test environment and execute a manual test plan before approving the change for production.

Answer: A

Explanation:
https://aws.amazon.com/blogs/devops/performing-bluegreen-deployments-with-aws-codedeploy- and-auto-scaling-groups/ When one adopts go infrastructure as code, we need to test the infrastructure code as well via automated testing, and revert to original if things are not performing correctly.

NEW QUESTION # 170

A company is hosting a critical application on a single Amazon EC2 instance. The application uses an Amazon ElastiCache for Redis single-node cluster for an in-memory data store. The application uses an Amazon RDS for MariaDB DB instance for a relational database. For the application to function, each piece of the infrastructure must be healthy and must be in an active state.
A solutions architect needs to improve the application's architecture so that the infrastructure can automatically recover from failure with the least possible downtime.
Which combination of steps will meet these requirements? (Select THREE.)

- A. Modify the DB instance to create a read replica in the same Availability Zone. Promote the read replica to be the primary DB instance in failure scenarios.
- B. Use an Elastic Load Balancer to distribute traffic across multiple EC2 instances Ensure that the EC2 instances are configured in unlimited mode.

- C. Use an Elastic Load Balancer to distribute traffic across multiple EC2 instances. Ensure that the EC2 instances are part of an Auto Scaling group that has a minimum capacity of two instances.
- D. Create a replication group for the ElastiCache for Redis cluster. Configure the cluster to use an Auto Scaling group that has a minimum capacity of two instances.
- E. Modify the DB instance to create a Multi-AZ deployment that extends across two Availability Zones.
- F. Create a replication group for the ElastiCache for Redis cluster. Enable Multi-AZ on the cluster.

Answer: C,E,F

Explanation:
* Option A is correct because using an Elastic Load Balancer and an Auto Scaling group with a minimum capacity of two instances can improve the availability and scalability of the EC2 instances that host the application. The load balancer can distribute traffic across multiple instances and the Auto Scaling group can replace any unhealthy instances automatically1
* Option D is correct because modifying the DB instance to create a Multi-AZ deployment that extends across two Availability Zones can improve the availability and durability of the RDS for MariaDB database. Multi-AZ deployments provide enhanceddata protection and minimize downtime by automatically failing over to astandby replica in another Availability Zone in case of a planned or unplanned outage4
* Option F is correct because creating a replication group for the ElastiCache for Redis cluster and enabling Multi-AZ on the cluster can improve the availability and fault tolerance of the in-memory data store. A replication group consists of a primary node and up to five read-only replica nodes that are synchronized with the primary node using asynchronous replication. Multi-AZ allows automatic failover to one of the replicas if the primary node fails or becomes unreachable6 References: 1:
https://docs.aws.amazon.com/elasticloadbalancing/latest/userguide/how-elastic-load-balancing- works.html 2:
https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/burstable-performance-instances- unlimited-mode.html 3:
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aws.amazon.com/AmazonElastiCache/latest/red-ug/AutoScaling.html 6: https://docs.aws.amazon.com
/AmazonElastiCache/latest/red-ug/Replication.Redis.Groups.html

NEW QUESTION # 171
A company needs to implement disaster recovery for a critical application that runs in a single AWS Region. The application's users interact with a web frontend that is hosted on Amazon EC2 Instances behind an Application Load Balancer (ALB). The application writes to an Amazon RD5 tor MySQL DB instance. The application also outputs processed documents that are stored in an Amazon S3 bucket The company's finance team directly queries the database to run reports. During busy periods, these queries consume resources and negatively affect application performance.
A solutions architect must design a solution that will provide resiliency during a disaster. The solution must minimize data loss and must resolve the performance problems that result from the finance team's queries.
Which solution will meet these requirements?

- A. Migrate the database to Amazon DynamoDB and use DynamoDB global tables. Instruct the finance team to query a global table in a separate Region. Create an AWS Lambda function to periodically synchronize the contents of the original S3 bucket to a new S3 bucket in the separate Region. Launch EC2 instances and create an ALB in the separate Region. Configure the application to point to the new S3 bucket.
- B. Create a read replica of the RDS DB instance in a separate Region. Instruct the finance team to run queries against the read replica. Create AMIs of the EC2 instances mat host the application frontend- Copy the AMIs to the separate Region. Use S3 Cross-Region Replication (CRR) from the original S3 bucket to a new S3 bucket in the separate Region. During a disaster, promote the read replica to a standalone DB instance. Launch EC2 instances from the AMIs and create an ALB to present the application to end users. Configure the application to point to the new S3 bucket.
- C. Launch additional EC2 instances that host the application in a separate Region. Add the additional instances to the existing ALB. In the separate Region, create a read replica of the RDS DB instance. Instruct the finance team to run queries ageist the read replica. Use S3 Cross-Region Replication (CRR) from the original S3 bucket to a new S3 Docket in the separate Region. During a disaster, promote the read replace to a standalone DB instance. Configure the application to point to the new S3 bucket and to the newly project read replica.
- D. Create hourly snapshots of the RDS DB instance. Copy the snapshots to a separate Region. Add an Amazon Elastic ache cluster m front of the existing RDS database. Create AMIs of the EC2 instances that host the application frontend Copy the AMIs to the separate Region. Use S3 Cross-Region Replication (CRR) from the original S3 bucket to a new S3 bucket in the separate Region. During a disaster, restore The database from the latest RDS snapshot. Launch EC2 Instances from the AMIs and create an ALB to present the application to end users. Configure the application to point to the new S3 bucket

Answer: B

Explanation:
Implementing a disaster recovery strategy that minimizes data loss and addresses performance issues involves creating a read replica of the RDS DB instance in a separate region and directing the finance team's queries to this replica. This solution alleviates the performance impact on the primary database. Using Amazon S3 Cross-Region Replication (CRR) ensures that processed documents are available in the disaster recovery region. In the event of a disaster, the read replica can be promoted to a standalone DB instance, and EC2 instances can be launched from pre-created AMIs to serve the web frontend, thereby ensuring resiliency and minimal data loss.

NEW QUESTION # 172

A company in the United States (US) has acquired a company in Europe. Both companies use the AWS Cloud. The US company has built a new application with a microservices architecture. The US company is hosting the application across five VPCs in the us-east-2 Region. The application must be able to access resources in one VPC in the eu-west-1 Region. However, the application must not be able to access any other VPCs. The VPCs in both Regions have no overlapping CIDR ranges. All accounts are already consolidated in one organization in AWS Organizations. Which solution will meet these requirements MOST cost-effectively?

- A. Create a full mesh VPC peering connection configuration between all the VPCs. Create the necessary route entries in each VPC so that the traffic is routed through the VPC peering connection.
- B. Create one transit gateway in eu-west-1. Attach the VPCs in us-east-2 and the VPC in eu-west-1 to the transit gateway. Create the necessary route entries in each VPC so that the traffic is routed through the transit gateway.
- C. Create one VPC peering connection for each VPC in us-east-2 to the VPC in eu-west-1. Create the necessary route entries in each VPC so that the traffic is routed through the VPC peering connection.
- D. Create one transit gateway in each Region. Attach the involved subnets to the regional transit gateway. Create the necessary route entries in the associated route tables for each subnet so that the traffic is routed through the regional transit gateway. Peer the two transit gateways.

Answer: B

Explanation:
Creating a single transit gateway in eu-west-1 allows for centralized and cost-effective connectivity between the VPCs involved, without the complexity of creating multiple peering connections or transit gateways.
This approach also allows for selective attachment of only the required VPCs, meeting the strict security and access requirements.
Route table configuration ensures traffic flows properly through the transit gateway, providing connectivity for the application without exposing other VPC resources.
This solution is the most cost-effective and operationally efficient choice for secure inter-Region communication.

NEW QUESTION # 173

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