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Amazon AWS-Solutions-Architect-Professional, also known as the AWS Certified Solutions Architect - Professional exam, is a certification program that validates an individual's expertise in designing and deploying scalable, reliable, and secure applications in the Amazon Web Services (AWS) cloud environment. AWS Certified Solutions Architect - Professional certification is intended for experienced cloud architects, solution designers, and IT professionals who are looking to enhance their knowledge and skills in AWS cloud infrastructure.

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Prominent Features of Amazon AWS-Solutions-Architect-Professional Exam Questions

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Amazon AWS Certified Solutions Architect - Professional Sample Questions (Q230-Q235):

NEW QUESTION # 230

A Solutions Architect needs to migrate a legacy application from on premises to AWS. On premises, the application runs on two Linux servers behind a load balancer and accesses a database that is master- master on two servers. Each application server requires a license file that is tied to the MAC address of the server's network adapter. It takes the software vendor 12 hours to send ne license files through email. The application requires configuration files to use static. IPv4 addresses to access the database servers, not DNS.

Given these requirements, which steps should be taken together to enable a scalable architecture for the application servers?
(Choose two.)

- A. Install the application on an EC2 instance, configure the application, and configure the IP address information. Create an AMI from this instance and use it for all instances.
- **B. Create a bootstrap automation to request a new license file from the vendor with a unique return email. Have the server configure itself with the received license file.**
- C. Create a pool of ENIs, request license files from the vendor for the pool, store the license files on an Amazon EC2 instance, modify the configuration files, and create an AMI from the instance. Use this AMI for all instances.
- **D. Create a pool of ENIs, request license files from the vendor for the pool, and store the license files within Amazon S3. Create automation to download an unused license, and attach the corresponding ENI at boot time.**
- E. Create bootstrap automation to attach an ENI from the pool, read the database IP addresses from AWS Systems Manager Parameter Store, and inject those parameters into the local configuration files. Keep SSM up to date using a Lambda function.

Answer: B,D

NEW QUESTION # 231

A retail company is hosting an ecommerce website on AWS across multiple AWS Regions. The company wants the website to be operational at all times for online purchases. The website stores data in an Amazon RDS for MySQL DB instance. Which solution will provide the HIGHEST availability for the database?

- A. Configure global tables and automated backups on Amazon RDS. In the case of disruption, use AWS Lambda to copy the read replicas from one Region to another Region.
- B. Configure automated backups on Amazon RDS. In the case of disruption, promote an automated backup to be a standalone DB instance. Direct database traffic to the promoted DB instance. Create a replacement read replica that has the promoted DB instance as its source.
- C. Configure global tables and read replicas on Amazon RDS. Activate the cross-Region scope. In the case of disruption, use AWS Lambda to copy the read replicas from one Region to another Region.
- **D. Configure read replicas on Amazon RDS. In the case of disruption, promote a cross-Region read replica to be a standalone DB instance. Direct database traffic to the promoted DB instance. Create a replacement read replica that has the promoted DB instance as its source.**

Answer: D

Explanation:

This solution will provide the highest availability for the database, as the read replicas will allow the database to be available in multiple Regions, thus reducing the chances of disruption. Additionally, the promotion of the cross-Region read replica to become a standalone DB instance will ensure that the database is still available even if one of the Regions experiences disruptions.

NEW QUESTION # 232

A Solutions Architect is designing a multi-account structure that has 10 existing accounts. The design must meet the following requirements:

Consolidate all accounts into one organization.

Allow full access to the Amazon EC2 service from the master account and the secondary accounts.

Minimize the effort required to add additional secondary accounts.

Which combination of steps should be included in the solution? (Choose two.)

- A. Create an organization from the master account. Send a join request to the master account from each secondary account. Accept the requests and create an OU.
- **B. Create an organization from the master account. Send invitations to the secondary accounts from the master account. Accept the invitations and create an OU.**
- C. Create a full EC2 access policy and map the policy to a role in each account. Trust every other account to assume the role.
- **D. Create a service control policy (SCP) that enables full EC2 access, and attach the policy to the OU.**
- E. Create a VPC peering connection between the master account and the secondary accounts. Accept the request for the VPC peering connection.

Answer: B,D

Explanation:

B/E: This is not minimizing the effort.

C: You don't need VPC peering unless the EC2 needs access across the accounts.

NEW QUESTION # 233

You are designing a photo-sharing mobile app. The application will store all pictures in a single Amazon S3 bucket.

Users will upload pictures from their mobile device directly to Amazon S3 and will be able to view and download their own pictures directly from Amazon S3.

You want to configure security to handle potentially millions of users in the most secure manner possible.

What should your server-side application do when a new user registers on the photo-sharing mobile application?

- A. Create an IAM user. Update the bucket policy with appropriate permissions for the IAM user. Generate an access key and secret key for the IAM user, store them in the mobile app and use these credentials to access Amazon S3.
- **B. Record the user's information in Amazon RDS and create a role in IAM with appropriate permissions. When the user uses their mobile app, create temporary credentials using the AWS Security Token Service "AssumeRole" function. Store these credentials in the mobile app's memory and use them to access Amazon S3. Generate new credentials the next time the user runs the mobile app.**
- C. Record the user's information in Amazon DynamoDB. When the user uses their mobile app, create temporary credentials using AWS Security Token Service with appropriate permissions. Store these credentials in the mobile app's memory and use them to access Amazon S3. Generate new credentials the next time the user runs the mobile app.
- D. Create an IAM user. Assign appropriate permissions to the IAM user. Generate an access key and secret key for the IAM user, store them in the mobile app and use these credentials to access Amazon S3.
- E. Create a set of long-term credentials using AWS Security Token Service with appropriate permissions. Store these credentials in the mobile app and use them to access Amazon S3.

Answer: B

Explanation:

Explanation

We can use either RDS or DynamoDB, however in our given answers, IAM role is mentioned only with RDS, so I would go with Answer B.

Question was explicitly focused on security, so IAM with RDS is the best choice.

NEW QUESTION # 234

A group of Amazon EC2 instances have been configured as high performance computing (HPC) cluster. The instances are running in a placement group, and are able to communicate with each other at network of up to 20 Gbps.

The cluster needs to communicate with a control EC2 instance outside of the placement group. The control instance has the same instance type and AMI as the other instances, and is configured with a public IP address.

How can the Solutions Architect improve the network speeds between the control instance and the instances in the placement group?

- **A. Terminate the control instance and relaunch in the placement group.**
- B. Ensure that the control instance is using an Elastic Network Adapter.
- C. Ensure that the instances are communicating using the private IP addresses.
- D. Move the control instance inside the placement group.

Answer: A

Explanation:

Explanation

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html>

NEW QUESTION # 235

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