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QUESTION 1

A company is running a large application on premises. Its technology stack consists of Microsoft .NET for the web server platform and Apache Cassandra for the database. The company wants to migrate this application to AWS to improve service reliability. The IT team also wants to reduce the time it spends on capacity management and maintenance of this infrastructure. The Development team is willing and available to make code changes to support the migration.

Which design is the LEAST complex to manage after the migration?

- A. Migrate the web servers to Amazon EC2 instances in an Auto Scaling group that is running .NET. Migrate the existing Cassandra database to Amazon Aurora with multiple read replicas, and run both in a Multi-AZ mode.
- B. Migrate the web servers to an AWS Elastic Beanstalk environment that is running the .NET platform in a Multi-AZ Auto Scaling configuration. Migrate the Cassandra database to Amazon EC2 instances that are running in a Multi-AZ configuration.
- C. Migrate the web servers to an AWS Elastic Beanstalk environment that is running the .NET platform in a Multi-AZ Auto Scaling configuration. Migrate the existing Cassandra database to Amazon DynamoDB.
- D. Migrate the web servers to Amazon EC2 instances in an Auto Scaling group that is running .NET. Migrate the existing Cassandra database to Amazon DynamoDB.

Correct Answer: D

QUESTION 2

A company is finalizing the architecture for its backup solution for applications running on AWS. All of the applications run on AWS and use at least two Availability Zones in each tier.

Company policy requires IT to durably store nightly backups for all its data in at least two locations: production and disaster recovery. The locations must be in different geographic regions. The company also needs the backup to be available to restore immediately at the production data center, and within 24 hours at the disaster recovery location. All backup processes must be fully automated.

What is the MOST cost-effective backup solution that will meet all requirements?

- A. Back up all the data to a large Amazon EBS volume attached to the backup media server in the production region. Run automated scripts to snapshot these volumes nightly, and copy these snapshots to the disaster recovery region.
- B. Back up all the data to Amazon S3 in the disaster recovery region. Use a lifecycle policy to move this data to Amazon Glacier in the production region immediately. Only the data is replicated; remove the data from the S3 bucket in the disaster recovery region.
- C. Back up all the data to Amazon Glacier in the production region. Set up cross-region replication of this data to Amazon Glacier in the disaster recovery region. Set up a lifecycle policy to delete any data older than 60 days.
- D. Back up all the data to Amazon S3 in the production region. Set up cross-region replication of this S3 bucket to another region and set up a lifecycle policy in the second region to immediately move this data to Amazon Glacier.

Correct Answer: D

QUESTION 3

Your company previously configured a heavily used, dynamically routed VPN connection between your on-premises data center and AWS. You recently provisioned a DirectConnect connection and would like to start using the new connection.

After configuring DirectConnect settings in the AWS Console, which of the following options will provide the most seamless transition for your users?

- A. Delete your existing VPN connection to avoid routing loops, configure your DirectConnect router with the appropriate settings, and verify network traffic is leveraging DirectConnect.
- B. Configure your DirectConnect router with a higher BGP priority than your VPN router, verify network traffic is leveraging DirectConnect, and then delete your existing VPN connection.
- C. Update your VPC route tables to point to the DirectConnect connection, configure your DirectConnect router with the appropriate settings, verify network traffic is leveraging DirectConnect, and then delete the VPN connection.
- D. Configure your DirectConnect router, update your VPC route tables to point to the DirectConnect connection, configure your VPN connection with a higher BGP priority, and verify network traffic is leveraging the DirectConnect connection.

Correct Answer: C

Q. Can I use AWS Direct Connect and a VPN Connection to the same VPC simultaneously?

Yes. However, only in fail-over scenarios. The Direct Connect path will always be preferred, when established, regardless of AS path prepending.

Reference:

<https://aws.amazon.com/directconnect/faqs/>

QUESTION 4

A large global financial services company has multiple business units. The company wants to allow Developers to try new services, but there are multiple compliance requirements for different workloads. The Security team is concerned about the access strategy for on-premises and AWS implementations. They would like to enforce governance for AWS services used by business teams for regulatory workloads, including Payment Card Industry (PCI) requirements.

Which solution will address the Security team's concerns and allow the Developers to try new services?

- A. Implement a strong identity and access management model that includes users, groups, and roles in various AWS accounts. Ensure that centralized AWS CloudTrail logging is enabled to detect anomalies. Build automation with AWS Lambda to tear down unapproved AWS resources for governance.
- B. Build a multi-account strategy based on business units, environments, and specific regulatory requirements. Implement SAML-based federation across all AWS accounts with an on-premises identity store. Use AWS Organizations and build organizational units (OUs) structure based on regulations and service governance. Implement service control policies across OUs.
- C. Implement a multi-account strategy based on business units, environments, and specific regulatory requirements. Ensure that only PCI-compliant services are approved for use in the accounts. Build IAM policies to give access to only PCI-compliant services for governance.

D. Build one AWS account for the company for strong security controls. Ensure that all the service limits are raised to meet company scalability requirements. Implement SAML federation with an on-premises identity store, and ensure that only approved services are used in the account.

Correct Answer: B

Reference: https://docs.aws.amazon.com/organizations/latest/userguide/orgs_introduction.html

QUESTION 5

The Statement element, of an AWS IAM policy, contains an array of individual statements. Each individual statement is a(n) _____ block enclosed in braces { }.

- A. XML
- B. JavaScript
- C. JSON
- D. AJAX

Correct Answer: C

The Statement element, of an IAM policy, contains an array of individual statements. Each individual statement is a JSON block enclosed in braces { }.

Reference: http://docs.aws.amazon.com/IAM/latest/UserGuide/AccessPolicyLanguage_ElementDescriptions.html

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