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Disaster Recovery, Fault Tolerance, and High Availability (16%)

- Evaluating a deployment for the points of failure;
- Determining how to automate and design various disaster recovery strategies;
- Determining the appropriate use of multi-region versus multi-AZ architectures;
- Defining the right service based on the business needs;
- Defining the implementation process of fault tolerance, scalability, and high availability;

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q100-Q105):

NEW QUESTION # 100

A DevOps Engineer needs to deploy a scalable three-tier Node.js application in AWS. The application must have zero downtime during deployments and be able to roll back to previous versions. Other applications will also connect to the same MySQL backend database. The CIO has provided the following guidance for logging: *Centrally view all current web access server logs. *Search and

filter web and application logs in near-real time. *Retain log data for three months. How should these requirements be met?

- A. Deploy the application on Amazon EC2. Configure Elastic Load Balancing and Auto Scaling. Use an Amazon RDS MySQL instance for the database tier. Configure the application to load streaming log data using Amazon Kinesis Data Firehouse into Amazon ES. Delete and create a new Amazon ES domain every 90 days.
- B. Deploy the application using AWS Elastic Beanstalk. Configure the environment type for Elastic Load Balancing and Auto Scaling. Create the Amazon RDS MySQL instance outside the Elastic Beanstalk stack. Configure the Elastic Beanstalk log options to stream logs to Amazon CloudWatch Logs. Set retention to 90 days.
- C. Deploy the application on Amazon EC2. Configure Elastic Load Balancing and Auto Scaling. Use an Amazon RDS MySQL instance for the database tier. Configure the application to store log files in Amazon S3. Use Amazon EMR to search and filter the data. Set an Amazon S3 lifecycle rule to expire objects after 90 days.
- D. Deploy the application using AWS Elastic Beanstalk. Configure the environment type for Elastic Load Balancing and Auto Scaling. Create an Amazon RDS MySQL instance inside the Elastic Beanstalk stack. Configure the Elastic Beanstalk log options to stream logs to Amazon CloudWatch Logs. Set retention to 90 days.

Answer: C

Explanation:

<https://docs.aws.amazon.com/emr/latest/ManagementGuide/emr-plan-debugging.html>

NEW QUESTION # 101

You are hired as the new head of operations for a SaaS company. Your CTO has asked you to make debugging any part of your entire operation simpler and as fast as possible. She complains that she has no idea what is going on in the complex, service-oriented architecture, because the developers just log to disk, and it's very hard to find errors in logs on so many services. How can you best meet this requirement and satisfy your CTO?

- A. Begin using CloudWatch Logs on every service. Stream all Log Groups into S3 objects. Use AWS EMR cluster jobs to perform ad-hoc MapReduce analysis and write new queries when needed.
- B. Copy all log files into AWS S3 using a cron job on each instance. Use an S3 Notification Configuration on the `<code>PutBucket</code>` event and publish events to AWS Lambda. Use the Lambda to analyze logs as soon as they come in and flag issues.
- C. Begin using CloudWatch Logs on every service. Stream all Log Groups into an AWS Elasticsearch Service Domain running Kibana 4 and perform log analysis on a search cluster.
- D. Copy all log files into AWS S3 using a cron job on each instance. Use an S3 Notification Configuration on the `<code>PutBucket</code>` event and publish events to AWS Kinesis. Use Apache Spark on AWS EMR to perform at-scale stream processing queries on the log chunks and flag issues.

Answer: C

Explanation:

The Elasticsearch and Kibana 4 combination is called the ELK Stack, and is designed specifically for real-time, ad-hoc log analysis and aggregation. All other answers introduce extra delay or require pre-defined queries.

Amazon Elasticsearch Service is a managed service that makes it easy to deploy, operate, and scale Elasticsearch in the AWS Cloud. Elasticsearch is a popular open-source search and analytics engine for use cases such as log analytics, real-time application monitoring, and click stream analytics.

Reference: <https://aws.amazon.com/elasticsearch-service/>

NEW QUESTION # 102

You are building a Ruby on Rails application for internal, non-production use which uses MySQL as a database. You want developers without very much AWS experience to be able to deploy new code with a single command line push. You also want to set this up as simply as possible. Which tool is ideal for this setup?

- A. AWS Elastic Beanstalk
- B. AWSOpsWorks
- C. AWSCloudFormation
- D. AWS ELB+ EC2 with CLI Push

Answer: A

Explanation:

Explanation

With Elastic Beanstalk, you can quickly deploy and manage applications in the AWS Cloud without worrying about the infrastructure that runs those applications.

AWS Elastic Beanstalk reduces management complexity without restricting choice or control. You simply upload your application, and Elastic Beanstalk automatically handles the details of capacity provisioning, load balancing, scaling, and application health monitoring. Elastic Beanstalk supports applications developed in Java, PHP, .NET, Node.js, Python, and Ruby, as well as different container types for each language.

For more information on Elastic beanstalk, please visit the below URL:

* <http://docs.aws.amazon.com/elasticbeanstalk/latest/dg/Welcome.html>

NEW QUESTION # 103

A company is building a solution for storing files containing Personally Identifiable Information (PII) on AWS.

Requirements state:

- * All data must be encrypted at rest and in transit.
- * All data must be replicated in at least two locations that are at least 500 miles apart.

Which solution meets these requirements?

- A. Create primary and secondary Amazon S3 buckets in two separate Availability Zones that are at least 500 miles apart. Use a bucket policy to enforce access to the buckets only through HTTPS. Use a bucket policy to enforce Amazon S3 SSE-C on all objects uploaded to the bucket. Configure cross-region replication between the two buckets.
- B. Create primary and secondary Amazon S3 buckets in two separate AWS Regions that are at least 500 miles apart. Use a bucket policy to enforce access to the buckets only through HTTPS. Use a bucket policy to enforce S3-Managed Keys (SSE-S3) on all objects uploaded to the bucket. Configure cross-region replication between the two buckets.
- C. Create primary and secondary Amazon S3 buckets in two separate AWS Regions that are at least 500 miles apart. Use an IAM role to enforce access to the buckets only through HTTPS. Use a bucket policy to enforce Amazon S3-Managed Keys (SSE-S3) on all objects uploaded to the bucket. Configure cross-region replication between the two buckets.
- D. Create primary and secondary Amazon S3 buckets in two separate Availability Zones that are at least 500 miles apart. Use a bucket policy to enforce access to the buckets only through HTTPS. Use a bucket policy to enforce AWS KMS encryption on all objects uploaded to the bucket. Configure cross-region replication between the two buckets. Create a KMS Customer Master Key (CMK) in the primary region for encrypting objects.

Answer: C

NEW QUESTION # 104

A media customer has several thousand Amazon EC2 instances in an AWS account. The customer is using a Slack channel for team communications and important updates. A DevOps Engineer was told to send all AWS-scheduled EC2 maintenance notifications to the company Slack channel.

Which method should the Engineer use to implement this process in the LEAST amount of steps?

- A. Integrate EC2 events with Amazon CloudWatch monitoring. Based on the CloudWatch Alarm created, the alarm can invoke an AWS Lambda function to send EC2 maintenance notifications to the Slack channel.
- B. Integrate AWS Trusted Advisor with AWS Config. Based on the AWS Config rules created, the AWS Config event can invoke an AWS Lambda function to send notifications to the Slack channel.
- C. Integrate AWS Personal Health Dashboard with Amazon CloudWatch Events. Based on the CloudWatch Events created, the event can invoke an AWS Lambda function to send notifications to the Slack channel.
- D. Integrate AWS Support with AWS CloudTrail. Based on the CloudTrail lookup event created, the event can invoke an AWS Lambda function to pass EC2 maintenance notifications to the Slack channel.

Answer: A

Explanation:

Explanation/Reference: <https://yabhinav.github.io/cloud/awslambda-slack-notifications/>

NEW QUESTION # 105

It is known to us that getting the AWS-DevOps certification has become more and more popular for a lot of people in different area, including students, teachers, and housewife and so on. Everyone is desired to have the AWS-DevOps certification. Our AWS-DevOps Exam Dumps Question is very necessary for you to try your best to get the certification in a short time. AWS-DevOps Exam Braindumps is willing to give you a hand to pass the exam. AWS-DevOps Exam Torrent will be the best study tool for you to get the certification

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