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The Amazon AWS-DevOps Exam covers a broad range of topics related to DevOps, including continuous delivery and deployment, monitoring and logging, infrastructure as code, security, and compliance. AWS-DevOps exam also covers the use of AWS services such as AWS CodePipeline, AWS CodeDeploy, AWS Elastic Beanstalk, AWS CloudFormation, AWS CloudTrail, and AWS Config.

The AWS-DevOps certification is an advanced level certification that validates the skills of experienced DevOps engineers. AWS Certified DevOps Engineer - Professional certification exam is designed to test the candidate's ability to automate the delivery of applications, infrastructure, and services on the Amazon Web Services platform. AWS Certified DevOps Engineer - Professional certification is recognized by organizations around the world and is a valuable asset for professionals seeking career advancement in the field of DevOps.

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The AWS Certified DevOps Engineer - Professional (DOP-C01) certification is highly valued in the industry and is recognized by employers worldwide. It is a testament to the skills and knowledge of the candidate in AWS DevOps and demonstrates their ability to design, deploy, and manage DevOps systems on the AWS platform. AWS Certified DevOps Engineer - Professional certification opens up new job opportunities and career advancement prospects for professionals in the field.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q320-Q325):

NEW QUESTION # 320

Your company releases new features with high frequency while demanding high application availability. As part of the application's A/B testing, logs from each updated Amazon EC2 instance of the application need to be analyzed in near real-time, to ensure that the application is working flawlessly after each deployment. If the logs show any anomalous behavior, then the application version of the instance is changed to a more stable one. Which of the following methods should you use for shipping and analyzing the logs in a highly available manner?

- A. Ship the logs to Amazon S3 for durability and use Amazon EMR to analyze the logs in a batch manner each hour.
- **B. Ship the logs to an Amazon Kinesis stream and have the consumers analyze the logs in a live manner.**
- C. Ship the logs to Amazon CloudWatch Logs and use Amazon EMR to analyze the logs in a batch manner each hour.
- D. Ship the logs to a large Amazon EC2 instance and analyze the logs in a live manner.

Answer: B

Explanation:

Explanation

Answer - C

You can use Kinesis Streams for rapid and continuous data intake and aggregation. The type of data used includes IT infrastructure log data, application logs, social media, market data feeds, and web clickstream data. Because the response time for the data intake and processing is in real time, the processing is typically lightweight.

The following are typical scenarios for using Kinesis Streams:

* Accelerated log and data feed intake and processing - You can have producers push data directly into a stream. For example, push system and application logs and they'll be available for processing in seconds. This prevents the log data from being lost if the front end or application server fails. Kinesis Streams provides accelerated data feed intake because you don't batch the data on the servers before you submit it for intake.

* Real-time metrics and reporting - You can use data collected into Kinesis Streams for simple data analysis and reporting in real time. For example, your data-processing application can work on metrics and reporting for system and application logs as the data is streaming in, rather than wait to receive batches of data.

For more information on Amazon Kinesis and SNS please refer to the below link:

* <http://docs.aws.amazon.com/streams/latest/dev/introduction.html>

NEW QUESTION # 321

You have a large number of web servers in an Auto Scaling group behind a load balancer. On an hourly basis, you want to filter and process the logs to collect data on unique visitors, and then put that data in a durable data store in order to run reports. Web servers in the Auto Scaling group are constantly launching and terminating based on your scaling policies, but you do not want to lose any of the log data from these servers during a stop/termination initiated by a user or by Auto Scaling.

What two approaches will meet these requirements?

Choose 2 answers

- A. Install an AWS Data Pipeline Logs Agent on every web server during the bootstrap process.
Create a log group object in AWS Data Pipeline, and define Metric Filters to move processed log data directly from the web servers to Amazon Redshift and run reports every hour.
- **B. Install an Amazon Cloudwatch Logs Agent on every web server during the bootstrap process.**
Create a CloudWatch log group and define Metric Filters to create custom metrics that track unique visitors from the streaming web server logs.
Create a scheduled task on an Amazon EC2 instance that runs every hour to generate a new report based on the Cloudwatch custom metrics.
- C. On the web servers, create a scheduled task that executes a script to rotate and transmit the logs to Amazon Glacier.
Ensure that the operating system shutdown procedure triggers a logs transmission when the Amazon EC2 instance is stopped/terminated.
Use Amazon Data Pipeline to process the data in Amazon Glacier and run reports every hour.
- **D. On the web servers, create a scheduled task that executes a script to rotate and transmit the logs to an Amazon S3 bucket.**
Ensure that the operating system shutdown procedure triggers a logs transmission when the Amazon EC2 instance is stopped/terminated.
Use AWS Data Pipeline to move log data from the Amazon S3 bucket to Amazon Redshift In order to process and run reports every hour.

Answer: B,D

NEW QUESTION # 322

The Security team depends on AWS CloudTrail to detect sensitive security issues in the company's AWS account. The DevOps Engineer needs a solution to auto-remediate CloudTrail being turned off in an AWS account. What solution ensures the LEAST amount of downtime for the CloudTrail log deliveries?

- A. Launch a t2.nano instance with a script running every 5 minutes that uses the AWS SDK to query CloudTrail in the current account. If the CloudTrail trail is disabled, have the script re-enable the trail.
- **B. Create an Amazon CloudWatch Events rule for the CloudTrail StopLogging event. Create an AWS Lambda function that uses the AWS SDK to call StartLogging on the ARN of the resource in which StopLogging was called. Add the Lambda function ARN as a target to the CloudWatch Events rule.**
- C. Create an Amazon CloudWatch Events rule for a scheduled event every 5 minutes. Create an AWS Lambda function that uses the AWS SDK to call StartLogging on an CloudTrail trail in the AWS account. Add the Lambda function ARN as a target to the CloudWatch Events rule.
- D. Deploy the AWS-managed CloudTrail-enabled AWS Config rule, set with a periodic interval of 1 hour. Create an Amazon CloudWatch Events rule for AWS Config rules compliance change. Create an AWS Lambda function that uses the AWS SDK to call StartLogging on the ARN of the resource in which StopLogging was called. Add the Lambda function ARN as a target to the CloudWatch Events rule.

Answer: B

NEW QUESTION # 323

Your company is supporting a number of applications that need to be moved to AWS. Initially they thought of moving these applications to the Elastic beanstalk service. When going to the Elastic beanstalk service, you can see that the underlying platform service is not an option in the Elastic beanstalk service. Which of the following options can be used to port your application onto Elastic beanstalk

- A. Use custom chef recipe's to deploy your application in Elastic beanstalk.
- B. Use custom CloudFormation templates to deploy the application into Elasticbeanstalk
- **C. Create a docker container for the custom application and then deploy it to Elasticbeanstalk.**
- D. Use the Opsworks service to create a stack. In the stack, create a separate custom layer. Deploy the application to this layer and then attach the layer to Elastic beanstalk

Answer: C

Explanation:

Explanation

The AWS documentation mentions the following

Elastic Beanstalk supports the deployment of web applications from Docker containers. With Docker containers, you can define your own runtime environment. You can choose your own platform, programming language, and any application dependencies (such as package managers or tools), that aren't supported by other platforms. Docker containers are self-contained and include all the configuration information and software your web application requires to run.

For more information on Elastic beanstalk and Docker, please refer to the below link:

* http://docs.aws.amazon.com/elasticbeanstalk/latest/dg/create_deploy_docker.html

NEW QUESTION # 324

Your application uses CloudFormation to orchestrate your application's resources. During your testing phase before the application went live, your Amazon RDS instance type was changed and caused the instance to be re-created, resulting in the loss of test data. How should you prevent this from occurring in the future?

- **A. In the AWS CloudFormation template, set the DeletionPolicy of the AWS::RDS::DBInstance's DeletionPolicy property to "Retain."**
- B. Subscribe to the AWS CloudFormation notification "BeforeResourceUpdate," and call CancelStackUpdate if the resource identified is the Amazon RDS instance.
- C. Within the AWS CloudFormation parameter with which users can select the Amazon RDS instance type, set AllowedValues to only contain the current instance type.
- D. Use an AWS CloudFormation stack policy to deny updates to the instance. Only allow UpdateStack permission to IAM principals that are denied SetStackPolicy.
- E. In the AWS CloudFormation template, set the AWS::RDS::DBInstance's DBInstanceClass property to be read-only.

Answer: A

NEW QUESTION # 325

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