

AWS-DevOps-Engineer-Professional Exam Syllabus & Exam AWS-DevOps-Engineer-Professional Overviews



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Amazon DOP-C01 (AWS Certified DevOps Engineer - Professional) certification exam is a sought-after credential for professionals who want to demonstrate their expertise in DevOps practices and technologies on the Amazon Web Services (AWS) platform. AWS Certified DevOps Engineer - Professional certification exam is designed for experienced DevOps engineers who have a deep understanding of AWS services and can design, deploy, and manage scalable, fault-tolerant, and highly available systems.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q135-Q140):

NEW QUESTION # 135

What does it mean if you have zero IOPS and a non-empty I/O queue for all EBS volumes attached to a running EC2 instance?

- A. The EBS volume is unavailable.
- B. You need to re-mount the EBS volume in the OS.

- C. Your EBS disk head(s) is/are seeking magnetic stripes.
- D. The I/O queue is buffer flushing.

Answer: A

Explanation:

This is the definition of Unavailable from the EC2 and EBS SLA. "Unavailable" and "Unavailability" mean... For Amazon EBS, when all of your attached volumes perform zero read write IO, with pending IO in the queue.

<https://aws.amazon.com/ec2/sla/>

NEW QUESTION # 136

A consulting company was hired to assess security vulnerabilities within a client company's application and propose a plan to remediate all identified issues. The architecture is identified as follows: Amazon S3 storage for content, an Auto Scaling group of Amazon EC2 instances behind an Elastic Load Balancer with attached Amazon EBS storage, and an Amazon RDS MySQL database. There are also several AWS Lambda functions that communicate directly with the RDS database using connection string statements in the code.

The consultants identified the top security threat as follows: the application is not meeting its requirement to have encryption at rest. What solution will address this issue with the LEAST operational overhead and will provide monitoring for potential future violations?

- A. Enable SSE encryption on the S3 buckets, EBS volumes, and the RDS database. Store RDS credentials in EC2 Parameter Store. Enable a policy on the S3 bucket to deny unencrypted puts. Set up AWS Config rules to periodically check for non-encrypted S3 objects and EBS volumes, and to ensure that RDS storage is encrypted.
- B. Enable SSE encryption on the S3 buckets and RDS database. Enable OS-based encryption of data on EBS volumes. Configure Amazon Inspector agents on EC2 instances to report on insecure encryption ciphers. Set up AWS Config rules to periodically check for non-encrypted S3 objects.
- C. Enable Secure Sockets Layer (SSL) on the load balancer, ensure that AWS Lambda is using SSL to communicate to the RDS database, and enable S3 encryption. Configure the application to force SSL for incoming connections and configure RDS to only grant access if the session is encrypted. Configure Amazon Inspector agents on EC2 instances to report on insecure encryption ciphers.
- D. Configure the application to encrypt each file prior to storing on Amazon S3. Enable OS-based encryption of data on EBS volumes. Encrypt data on write to RDS. Run cron jobs on each instance to check for encrypted data and notify via Amazon SNS. Use S3 Events to call an AWS Lambda function and verify if the file is encrypted.

Answer: A

NEW QUESTION # 137

A company hosts parts of a Python-based application using AWS Elastic Beanstalk. An Elastic Beanstalk CLI is being used to create and update the environments. The Operations team detected an increase in requests in one of the Elastic Beanstalk environments that caused downtime overnight. The team noted that the policy used for AWS Auto Scaling is NetworkOut. Based on load testing metrics, the team determined that the application needs to scale CPU utilization to improve the resilience of the environments. The team wants to implement this across all environments automatically. Following AWS recommendations, how should this automation be implemented?

- A. Using ebextensions, place a script within the files key and place it in /opt/elasticbeanstalk/hooks/appdeploy/pre to perform an API call to modify the scaling metric to CPUUtilization for the Auto Scaling configuration. Use leader_only to place this script in only the first instance launched within the environment.
- B. Using ebextensions, configure the option setting MeasureName to CPUUtilization within the aws:autoscaling:trigger namespace.
- C. Using ebextensions, place a command within the container_commands key to perform an API call to modify the scaling metric to CPUUtilization for the Auto Scaling configuration. Use leader_only to execute this command in only the first instance launched within the environment.
- D. Using ebextensions, create a custom resource that modifies the AWSEBAutoScalingScaleUpPolicy and AWSEBAutoScalingScaleDownPolicy resources to use CPUUtilization as a metric to scale for the Auto Scaling group.

Answer: C

NEW QUESTION # 138

A company using AWS CodeCommit for source control wants to automate its continuous integration and continuous deployment pipeline on AWS in its development environment. The company has three requirements:

1. There must be a legal and a security review of any code change to make sure sensitive information is not leaked through the source code.
2. Every change must go through unit testing.
3. Every change must go through a suite of functional testing to ensure functionality.

In addition, the company has the following requirements for automation:

1. Code changes should automatically trigger the CI/CD pipeline.
2. Any failure in the pipeline should notify devops-admin@xyz.com.
3. There must be an approval to stage the assets to Amazon S3 after tests have been performed.

What should a DevOps Engineer do to meet all of these requirements while following CI/CD best practices?

- A. Commit to mainline and trigger AWS CodePipeline from mainline. Make an individual stage in CodePipeline for security review, unit tests, functional tests, and manual approval. Use AWS CloudTrail logs to detect changes in pipeline stages and Amazon SNS for emailing devops-admin@xyz.com.
- B. Commit to mainline and trigger AWS CodePipeline from mainline. Make an individual stage in CodePipeline for security review, unit tests, functional tests, and manual approval. Use Amazon CloudWatch Events to detect changes in pipeline stages and Amazon SES for emailing devops-admin@xyz.com.
- C. Commit to the development branch and trigger AWS CodePipeline from the development branch. Make an individual stage in CodePipeline for security review, unit tests, functional tests, and manual approval. Use Amazon CloudWatch Events to detect changes in pipeline stages and Amazon SNS for emailing devops-admin@xyz.com.
- D. Commit to the development branch and trigger AWS CodePipeline from the development branch. Make an individual stage in CodePipeline for security review, unit tests, functional tests, and manual approval. Use Amazon CloudWatch metrics to detect changes in pipeline stages and Amazon SES for emailing devops-admin@xyz.com.

Answer: C

NEW QUESTION # 139

You are designing an application that contains protected health information. Security and compliance requirements for your application mandate that all protected health information in the application use encryption at rest and in transit. The application uses a three-tier architecture where data flows through the load balancer and is stored on Amazon EBS volumes for processing and the results are stored in Amazon S3 using the AWS SDK.

Which of the following two options satisfy the security requirements? (Select two)

- A. Use TCP load balancing on the load balancer. SSL termination on the Amazon EC2 instances and Amazon S3 with server-side encryption.
- B. Use SSL termination with a SAN SSL certificate on the load balancer. Amazon EC2 with all Amazon EBS volumes using Amazon EBS encryption, and Amazon S3 with server-side encryption with customer-managed keys.
- C. Use SSL termination on the load balancer, Amazon EBS encryption on Amazon EC2 instances and Amazon S3 with server-side encryption.
- D. Use TCP load balancing on the load balancer. SSL termination on the Amazon EC2 instances. OS-level disk encryption on the Amazon EBS volumes and Amazon S3 with server-side encryption.
- E. Use SSL termination on the load balancer and an SSL listener on the Amazon EC2 instances, Amazon EBS encryption on EBS volumes containing PHI and Amazon S3 with server-side encryption.

Answer: D,E

Explanation:

Explanation

The AWS Documentation mentions the following:

HTTPS/SSL Listeners

You can create a load balancer with the following security features.

SSL Server Certificates

If you use HTTPS or SSL for your front-end connections, you must deploy an X.509 certificate (SSL server certificate) on your load balancer. The load balancer decrypts requests from clients before sending them to the back-end instances (known as SSL termination). For more information, see [SSL/TLS Certificates for Classic Load Balancers](#).

If you don't want the load balancer to handle the SSL termination (known as SSL offloading), you can use TCP for both the front-end and back-end connections, and deploy certificates on the registered instances handling requests.

Reference Link:

<http://docs.aws.a>

[mazon.com/elasticloadbalancing/latest/classic/elb-listener-config.htm](https://docs.aws.amazon.com/elasticloadbalancing/latest/classic/elb-listener-config.html) I Create a Classic Load Balancer with an HTTPS Listener A load balancer takes requests from clients and distributes them across the EC2 instances that are registered with the load balancer. You can create a load balancer that listens on both the HTTP (80) and HTTPS (443) ports. If you specify that the HTTPS listener sends requests to the instances on port 80, the load balancer terminates the requests and communication from the load balancer to the instances is not encrypted. If the HTTPS listener sends requests to the instances on port 443, communication from the load balancer to the instances is encrypted.

Reference Link:

* <http://docs.aws.a>

[mazon.com/elasticloadbalancing/latest/classic/elb-create-https-ssl-load-balancer.htm](https://docs.aws.amazon.com/elasticloadbalancing/latest/classic/elb-create-https-ssl-load-balancer.html) I Option A

& B are incorrect because they are missing encryption in transit between ELB and EC2 instances.

Option D is incorrect because it is missing encryption at rest on the data associated with the EC2 instances.

NEW QUESTION # 140

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