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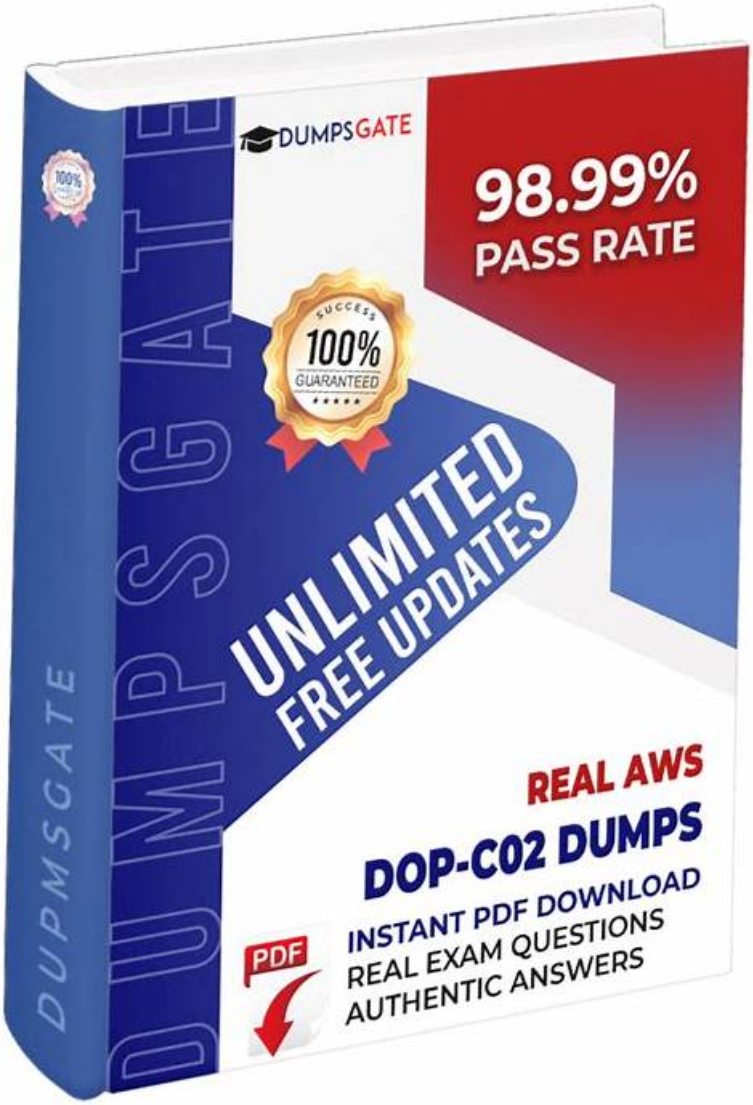

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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q20-Q25):

NEW QUESTION # 20
A company's development team uses AVMS Cloud Formation to deploy its application resources The team must use for an changes to the environment The team cannot use AWS Management Console or the AWS CLI to make manual changes directly.
The team uses a developer IAM role to access the environment The role is configured with the Admnistratoraccess managed policy.
The company has created a new Cloudformationdeployment IAM role that has the following policy.
The company wants ensure that only CloudFormation can use the new role. The development team cannot make any manual changes to the deployed resources.
Which combination of steps meet these requirements? (Select THREE.)

- A. Add an IAM policy to CloudFormationDeplyment to allow cloudformation * on an Add a policy that allows the iam.PassR01e action for ARN of if iam PassedT0Service equal cloudformation.amazonaws.com
- B. Update the trust Of the CloudFormationDepoyment role to anow the cloudformation.amazonaws.com AWS principal to perform the iam:AssumeR01e action
- C. Remove me Administratoraccess policy. Assign the ReadOnly/Access managed IAM policy to the developer role Instruct the developers to assume the CloudFormatondeployment role when the developers new stacks
- D. Configure the IAM to be to get and pass the CloudFormationDeployment role if cloudformation actions for resources,
- E. Update the trust of CloudFormationDeployment role to allow the developer IAM role to assume the CloudFormationDepoyment role.
- F. Remove the AdministratorAccess policy. Assign the ReadOnlyAccess managed IAM policy to the developer role. Instruct the developers to use the CloudFormationDeployment role as a CloudFormation service role when the developers deploy new stacks.

Answer: A,B,F

Explanation:
The correct answer is A, D, and F)
A comprehensive and detailed explanation is:
Option A is correct because removing the AdministratorAccess policy and assigning the ReadOnlyAccess managed IAM policy to the developer role is a valid way to prevent the developers from making any manual changes to the deployed resources. The AdministratorAccess policy grants full access to all AWS resources and actions, which is not necessary for the developers. The ReadOnlyAccess policy grants read-only access to most AWS resources and actions, which is sufficient for the developers to view the status of their stacks. Instructing the developers to use the CloudFormationDeployment role as a CloudFormation service role when they deploy new stacks is also a valid way to ensure that only CloudFormation can use the new role. A CloudFormation service role is an IAM role that allows CloudFormation to make calls to resources in a stack on behalf of the user1. The user can specify a service role when they create or update a stack, and CloudFormation will use that role's credentials for all operations that are performed on that stack1.
Option B is incorrect because updating the trust of CloudFormationDeployment role to allow the developer IAM role to assume the CloudFormationDeployment role is not a valid solution. This would allow the developers to manually assume the CloudFormationDeployment role and perform actions on the deployed resources, which is not what the company wants. The trust of CloudFormationDeployment role should only allow the cloudformation.amazonaws.com AWS principal to assume the role, as in option D) Option C is incorrect because configuring the IAM user to be able to get and pass the CloudFormationDeployment role if cloudformation actions for resources is not a valid solution. This would allow the developers to manually pass the CloudFormationDeployment role to other services or resources, which is not what the company wants. The IAM user should only be able to pass the CloudFormationDeployment role as a service role when they create or update a stack with CloudFormation, as in option A.
Option D is correct because updating the trust of CloudFormationDeployment role to allow the cloudformation.amazonaws.com AWS principal to perform the iam:AssumeRole action is a valid solution. This allows CloudFormation to assume the CloudFormationDeployment role and access resources in other services on behalf of the user2. The trust policy of an IAM role defines which entities can assume the role2. By specifying cloudformation.amazonaws.com as the principal, you grant permission only to CloudFormation to assume this role.
Option E is incorrect because instructing the developers to assume the CloudFormationDeployment role when they deploy new stacks is not a valid solution. This would allow the developers to manually assume the CloudFormationDeployment role and perform

actions on the deployed resources, which is not what the company wants. The developers should only use the CloudFormationDeployment role as a service role when they deploy new stacks with CloudFormation, as in option A.
Option F is correct because adding an IAM policy to CloudFormationDeployment that allows cloudformation:* on all resources and adding a policy that allows the iam:PassRole action for ARN of CloudFormationDeployment if iam:PassedToService equals cloudformation.amazonaws.com are valid solutions. The first policy grants permission for CloudFormationDeployment to perform any action with any resource using cloudformation.amazonaws.com as a service principal3. The second policy grants permission for passing this role only if it is passed by cloudformation.amazonaws.com as a service principal4. This ensures that only CloudFormation can use this role.
Reference:
1: AWS CloudFormation service roles
2: How to use trust policies with IAM roles
3: AWS::IAM::Policy
4: IAM: Pass an IAM role to a specific AWS service

NEW QUESTION # 21
A healthcare services company is concerned about the growing costs of software licensing for an application for monitoring patient wellness. The company wants to create an audit process to ensure that the application is running exclusively on Amazon EC2 Dedicated Hosts. A DevOps engineer must create a workflow to audit the application to ensure compliance.
What steps should the engineer take to meet this requirement with the LEAST administrative overhead?

- A. Use AWS Systems Manager Configuration Compliance. Use calls to the put-compliance-items API action to scan and build a database of noncompliant EC2 instances based on their host placement configuration. Use an Amazon DynamoDB table to store these instance IDs for fast access. Generate a report through Systems Manager by calling the list-compliance-summaries API action.
- B. Use AWS Config. Identify all EC2 instances to be audited by enabling Config Recording on all Amazon EC2 resources for the region. Create a custom AWS Config rule that triggers an AWS Lambda function by using the "config-rule-change-triggered" blueprint. Modify the Lambda evaluateCompliance () function to verify host placement to return a NON_COMPLIANT result if the instance is not running on an EC2 Dedicated Host. Use the AWS Config report to address noncompliant instances.
- C. Use AWS CloudTrail. Identify all EC2 instances to be audited by analyzing all calls to the EC2 RunCommand API action. Invoke a AWS Lambda function that analyzes the host placement of the instance. Store the EC2 instance ID of noncompliant resources in an Amazon RDS for MySQL DB instance. Generate a report by querying the RDS instance and exporting the query results to a CSV text file.
- D. Use custom Java code running on an EC2 instance. Set up EC2 Auto Scaling for the instance depending on the number of instances to be checked. Send the list of noncompliant EC2 instance IDs to an Amazon SQS queue. Set up another worker instance to process instance IDs from the SQS queue and write them to Amazon DynamoDB. Use an AWS Lambda function to terminate noncompliant instance IDs obtained from the queue, and send them to an Amazon SNS email topic for distribution.

Answer: B

Explanation:
The correct answer is C. Using AWS Config to identify and audit all EC2 instances based on their host placement configuration is the most efficient and scalable solution to ensure compliance with the software licensing requirement. AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. By creating a custom AWS Config rule that triggers a Lambda function to verify host placement, the DevOps engineer can automate the process of checking whether the instances are running on EC2 Dedicated Hosts or not. The Lambda function can return a NON_COMPLIANT result if the instance is not running on an EC2 Dedicated Host, and the AWS Config report can provide a summary of the compliance status of the instances. This solution requires the least administrative overhead compared to the other options.
Option A is incorrect because using AWS Systems Manager Configuration Compliance to scan and build a database of noncompliant EC2 instances based on their host placement configuration is a more complex and costly solution than using AWS Config. AWS Systems Manager Configuration Compliance is a feature of AWS Systems Manager that enables you to scan your managed instances for patch compliance and configuration inconsistencies. To use this feature, the DevOps engineer would need to install the Systems Manager Agent on each EC2 instance, create a State Manager association to run the put-compliance-items API action periodically, and use a DynamoDB table to store the instance IDs of noncompliant resources. This solution would also require more API calls and storage costs than using AWS Config.
Option B is incorrect because using custom Java code running on an EC2 instance to check and terminate noncompliant EC2 instances is a more cumbersome and error-prone solution than using AWS Config. This solution would require the DevOps engineer to write and maintain the Java code, set up EC2 Auto Scaling for the instance, use an SQS queue and another worker instance to process the instance IDs, use a Lambda function and an SNS topic to terminate and notify the noncompliant instances, and handle

any potential failures or exceptions in the workflow. This solution would also incur more compute, storage, and messaging costs than using AWS Config.
Option D is incorrect because using AWS CloudTrail to identify and audit EC2 instances by analyzing the EC2 RunCommand API action is a less reliable and accurate solution than using AWS Config. AWS CloudTrail is a service that enables you to monitor and log the API activity in your AWS account. The EC2 RunCommand API action is used to execute commands on one or more EC2 instances. However, this API action does not necessarily indicate the host placement of the instance, and it may not capture all the instances that are running on EC2 Dedicated Hosts or not. Therefore, option D would not provide a comprehensive and consistent audit of the EC2 instances.

NEW QUESTION # 22
A company has many applications. Different teams in the company developed the applications by using multiple languages and frameworks. The applications run on premises and on different servers with different operating systems. Each team has its own release protocol and process. The company wants to reduce the complexity of the release and maintenance of these applications. The company is migrating its technology stacks, including these applications, to AWS. The company wants centralized control of source code, a consistent and automatic delivery pipeline, and as few maintenance tasks as possible on the underlying infrastructure. What should a DevOps engineer do to meet these requirements?

- A. Create one AWS CodeCommit repository for each of the applications. Use AWS CodeBuild to build the applications one at a time and to create one AMI for each server. Use AWS CloudFormation StackSets to automatically provision and decommission Amazon EC2 fleets by using these AMIs.
- B. Create one AWS CodeCommit repository for all applications. Put each application's code in a different branch. Merge the branches, and use AWS CodeBuild to build the applications. Use AWS CodeDeploy to deploy the applications to one centralized application server.
- C. Create one AWS CodeCommit repository for each of the applications. Use AWS CodeBuild to build one Docker image for each application in Amazon Elastic Container Registry (Amazon ECR). Use AWS CodeDeploy to deploy the applications to Amazon Elastic Container Service (Amazon ECS) on infrastructure that AWS Fargate manages.
- D. Create one AWS CodeCommit repository for each of the applications. Use AWS CodeBuild to build the applications one at a time. Use AWS CodeDeploy to deploy the applications to one centralized application server.

Answer: C

Explanation:
Explanation
because of "as few maintenance tasks as possible on the underlying infrastructure". Fargate does that better than "one centralized application server"

NEW QUESTION # 23
A company has a mission-critical application on AWS that uses automatic scaling The company wants the deployment lilecycle to meet the following parameters.
* The application must be deployed one instance at a time to ensure the remaining fleet continues to serve traffic
* The application is CPU intensive and must be closely monitored
* The deployment must automatically roll back if the CPU utilization of the deployment instance exceeds 85%.
Which solution will meet these requirements?

- A. Use AWS Systems Manager to perform a blue/green deployment with Amazon EC2 Auto Scaling Configure an alarm tied to the CPU utilization metric Deploy updates one at a time Configure automatic rollbacks within the Auto Scaling group to roll back the deployment if the alarm thresholds are breached
- B. Use AWS CloudFormalion to create an AWS Step Functions state machine and Auto Scaling hfecycle hooks to move to one instance at a time into a wait state Use AWS Systems Manager automation to deploy the update to each instance and move it back into the Auto Scaling group using the heartbeat timeout
- C. Use AWS Elastic Beanstalk for load balancing and AWS Auto Scaling Configure an alarm tied to the CPU utilization metric Configure rolling deployments with a fixed batch size of one instance Enable enhanced health to monitor the status of the deployment and roll back based on the alarm previously created.
- D. Use AWS CodeDeploy with Amazon EC2 Auto Scaling. Configure an alarm tied to the CPU utilization metric. Use the CodeDeployDefault OneAtAtime configuration as a deployment strategy Configure automatic rollbacks within the deployment group to roll back the deployment if the alarm thresholds are breached

Answer: D

Explanation:
https://aws.amazon.com/about-aws/whats-new/2016/09/aws-codedeploy-introduces-deployment-monitoring-with-amazon-cloudwatch-alarms-and-automatic-deployment-rollback/

NEW QUESTION # 24
An ecommerce company uses a large number of Amazon Elastic Block Store (Amazon EBS) backed Amazon EC2 instances. To decrease manual work across all the instances, a DevOps engineer is tasked with automating restart actions when EC2 instance retirement events are scheduled.
How can this be accomplished?

- A. Create a scheduled Amazon EventBridge rule to run an AWS Systems Manager Automation runbook that checks if any EC2 instances are scheduled for retirement once a week If the instance is scheduled for retirement the runbook will hibernate the instance
- B. Enable EC2Auto Recovery on all of the instances. Create an AWS Config rule to limit the recovery to occur during a maintenance window only
- C. Reboot all EC2 instances during an approved maintenance window that is outside of standard business hours Set up Amazon CloudWatch alarms to send a notification in case any instance is failing EC2 instance status checks
- D. Set up an AWS Health Amazon EventBridge rule to run AWS Systems Manager Automation runbooks that stop and start the EC2 instance when a retirement scheduled event occurs.

Answer: D

Explanation:
https://aws.amazon.com/blogs/mt/automate-remediation-actions-for-amazon-ec2-notifications-and-beyond-using-ec2-systems-manager-automation-and-aws-health/

NEW QUESTION # 25
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