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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q263-Q268):

NEW QUESTION # 263

A company is adopting AWS CodeDeploy to automate its application deployments for a Java-Apache Tomcat application with an Apache Webserver. The development team started with a proof of concept, created a deployment group for a developer environment, and performed functional tests within the application. After completion, the team will create additional deployment groups for staging and production.

The current log level is configured within the Apache settings, but the team wants to change this configuration dynamically when the deployment occurs, so that they can set different log level configurations depending on the deployment group without having a different application revision for each group.

How can these requirements be met with the LEAST management overhead and without requiring different script versions for each deployment group?

- A. Create a script that uses the CodeDeploy environment variable `DEPLOYMENT_GROUP_NAME` to identify which deployment group the instance is part of. Use this information to configure the log level settings. Reference this script as part of the `BeforeInstall` lifecycle hook in the `appspec.yml` file.
- B. Create a script that uses the CodeDeploy environment variable `DEPLOYMENT_GROUP_ID` to identify which deployment group the instance is part of to configure the log level settings. Reference this script as part of the `Install` lifecycle hook in the `appspec.yml` file.
- C. Create a CodeDeploy custom environment variable for each environment. Then place a script into the application revision that checks this environment variable to identify which deployment group the instance is part of. Use this information to configure the log level settings. Reference this script as part of the `ValidateService` lifecycle hook in the `appspec.yml` file.
- D. Tag the Amazon EC2 instances depending on the deployment group. Then place a script into the application revision that calls the metadata service and the EC2 API to identify which deployment group the instance is part of. Use this information to configure the log level settings. Reference the script as part of the `AfterInstall` lifecycle hook in the `appspec.yml` file.

Answer: A

NEW QUESTION # 264

A rapidly growing company wants to scale for developer demand for AWS development environments. Development environments are created manually in the AWS Management Console. The networking team uses AWS CloudFormation to manage the networking infrastructure, exporting stack output values for the Amazon VPC and all subnets. The development environments have common standards, such as Application Load Balancers, Amazon EC2 Auto Scaling groups, security groups, and Amazon DynamoDB tables.

To keep up with demand, the DevOps engineer wants to automate the creation of development environments. Because the infrastructure required to support the application is expected to grow, there must be a way to easily update the deployed infrastructure. CloudFormation will be used to create a template for the development environments.

Which approach will meet these requirements and quickly provide consistent AWS environments for developers?

- A. Use nested stacks to define common infrastructure components. Use `Fn::ImportValue` intrinsic functions with the resources of the nested stack to retrieve Virtual Private Cloud (VPC) and subnet values. Use the `CreateChangeSet` and `ExecuteChangeSet` commands to update existing development environments.
- B. Use `Fn::ImportValue` intrinsic functions in the Resources section of the template to retrieve Virtual Private Cloud (VPC) and subnet values. Use CloudFormation StackSets for the development environments, using the `Count` input parameter to indicate the number of environments needed. Use the `UpdateStackSet` command to update existing development environments.
- C. Use `Fn::ImportValue` intrinsic functions in the Parameters section of the root template to retrieve Virtual Private Cloud (VPC) and subnet values. Define the development resources in the order they need to be created in the CloudFormation nested stacks. Use the `CreateChangeSet` and `ExecuteChangeSet` commands to update existing development environments.
- D. Use nested stacks to define common infrastructure components. To access the exported values, use `TemplateURL` to reference the networking team's template. To retrieve Virtual Private Cloud (VPC) and subnet values, use `Fn::ImportValue` intrinsic functions in the Parameters section of the root template. Use the `CreateChangeSet` and `ExecuteChangeSet` commands to update existing development environments.

Answer: A

Explanation:

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/intrinsic-function-reference-importvalue.html>

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/intrinsic-function-reference-importvalue.html> CF of network exports the VPC, subnet or needed information CF of application imports the above information to its stack and `UpdateChangeSet/ExecuteChangeSet`

NEW QUESTION # 265

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- D. Use nested stacks to define common infrastructure components. To access the exported values, use `TemplateURL` to reference the networking team's template. To retrieve Virtual Private Cloud (VPC) and subnet values, use `Fn::ImportValue` intrinsic functions in the Parameters section of the root template. Use the `CreateChangeSet` and `ExecuteChangeSet` commands to update existing development environments.

Answer: A

NEW QUESTION # 266

A company requires its developers to tag all Amazon Elastic Block Store (Amazon EBS) volumes in an account to indicate a desired backup frequency. This requirement Includes EBS volumes that do not require backups. The company uses custom tags named `Backup_Frequency` that have values of none, dally, or weekly that correspond to the desired backup frequency. An audit finds that developers are occasionally not tagging the EBS volumes.

A DevOps engineer needs to ensure that all EBS volumes always have the `Backup_Frequency` tag so that the company can perform backups at least weekly unless a different value is specified.

Which solution will meet these requirements?

- A. Set up AWS Config in the account. Create a custom rule that returns a compliance failure for all Amazon EC2 resources that do not have a `Backup_Frequency` tag applied. Configure a remediation action that uses a custom AWS Systems Manager Automation runbook to apply the `Backup_Frequency` tag with a value of weekly.
- B. Turn on AWS CloudTrail in the account. Create an Amazon EventBridge rule that reacts to EBS `CreateVolume` events or EBS `ModifyVolume` events. Configure a custom AWS Systems Manager Automation runbook to apply the `Backup_Frequency` tag with a value of weekly. Specify the runbook as the target of the rule.
- C. Set up AWS Config in the account. Use a managed rule that returns a compliance failure for EC2::Volume resources that do not have a `Backup_Frequency` tag applied. Configure a remediation action that uses a custom AWS Systems Manager Automation runbook to apply the `Backup_Frequency` tag with a value of weekly.
- D. Turn on AWS CloudTrail in the account. Create an Amazon EventBridge rule that reacts to EBS `CreateVolume` events. Configure a custom AWS Systems Manager Automation runbook to apply the `Backup_Frequency` tag with a value of weekly. Specify the runbook as the target of the rule.

Answer: C

Explanation:

The following are the steps that the DevOps engineer should take to ensure that all EBS volumes always have the `Backup_Frequency` tag so that the company can perform backups at least weekly unless a different value is specified:

* Set up AWS Config in the account.

* Use a managed rule that returns a compliance failure for EC2::Volume resources that do not have a `Backup_Frequency` tag applied.

* Configure a remediation action that uses a custom AWS Systems Manager Automation runbook to apply the `Backup_Frequency` tag with a value of weekly.

The managed rule `AWS::Config::EBSVolumesWithoutBackupTag` will return a compliance failure for any EBS volume that does not have the `Backup_Frequency` tag applied. The remediation action will then use the Systems Manager Automation runbook to apply the `Backup_Frequency` tag with a value of weekly to the EBS volume.

NEW QUESTION # 267

A DevOps engineer manages a web application that runs on Amazon EC2 instances behind an Application Load Balancer (ALB). The instances run in an EC2 Auto Scaling group across multiple Availability Zones.

The engineer needs to implement a deployment strategy that:

Launches a second fleet of instances with the same capacity as the original fleet.
Maintains the original fleet unchanged while the second fleet is launched.
Transitions traffic to the second fleet when the second fleet is fully deployed.
Terminates the original fleet automatically 1 hour after transition.
Which solution will satisfy these requirements?

- **A. Use AWS CodeDeploy with a deployment group configured with a blue/green deployment configuration. Select the option Terminate the original instances in the deployment group with a waiting period of 1 hour.**
- B. Use an AWS CloudFormation template with a retention policy for the ALB set to 1 hour. Update the Amazon Route 53 record to reflect the new ALB.
- C. Use AWS Elastic Beanstalk with the configuration set to Immutable. Create an .ebextension using the Resources key that sets the deletion policy of the ALB to 1 hour, and deploy the application.
- D. Use two AWS Elastic Beanstalk environments to perform a blue/green deployment from the original environment to the new one. Create an application version lifecycle policy to terminate the original environment in 1 hour.

Answer: A

Explanation:

https://docs.aws.amazon.com/codedeploy/latest/APIReference/API_BlueInstanceTerminationOption.html The original revision termination settings are configured to wait 1 hour after traffic has been rerouted before terminating the blue task set.
<https://docs.aws.amazon.com/AmazonECS/latest/developerguide/deployment-type-bluegreen.html>

NEW QUESTION # 268

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