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QUESTION 1

A company manages AWS accounts for application teams in AWS Control Tower. Individual application teams are responsible for securing their respective AWS accounts.

A DevOps engineer needs to enable Amazon GuardDuty for all AWS accounts in which the application teams have not already enabled GuardDuty. The DevOps engineer is using AWS CloudFormation StackSets from the AWS Control Tower management account.

How should the DevOps engineer configure the CloudFormation template to prevent failure during the StackSets deployment?

- A. Create a CloudFormation custom resource that invokes an AWS Lambda function. Configure the Lambda function to conditionally enable GuardDuty if GuardDuty is not already enabled in the accounts.
- B. Use the Conditions section of the CloudFormation template to enable GuardDuty in accounts where GuardDuty is not already enabled.
- C. Use the CloudFormation Fn. GetAtt intrinsic function to check whether GuardDuty is already enabled. If GuardDuty is not already enabled, use the Resources section of the CloudFormation template to enable GuardDuty.
- D. Manually discover the list of AWS account IDs where GuardDuty is not enabled. Use the CloudFormation Fn: ImportValue intrinsic function to import the list of account IDs into the CloudFormation template to skip deployment for the listed AWS accounts.

Correct Answer: A

This solution will meet the requirements because it will use a CloudFormation custom resource to execute custom logic during the stack set operation. A custom resource is a resource that you define in your template and that is associated with an AWS Lambda function. The Lambda function runs whenever the custom resource is created, updated, or deleted, and can perform any actions that are supported by the AWS SDK. In this case, the Lambda function can use the GuardDuty API to check whether GuardDuty is already enabled in each target account, and if not, enable it. This way, the DevOps engineer can avoid deploying the stack set to accounts that already have GuardDuty enabled, and prevent failure during the deployment.

QUESTION 2

When Ansible's connection state is set to `remote`, what method of communication does Ansible utilize to run commands on the remote target host?

- A. SSH
- B. RSH
- C. PSEXEC
- D. API call to Ansible client on host

Correct Answer: A

Ansible does not require a client/server architecture and makes all remote connections over SSH. Ansible utilizes the Paramiko Python libraries for SSH when the native system OpenSSH libraries do not meet the requirements. Also note, Ansible does require Python be installed on the target host. When the target host is Windows, it uses WinRS



Reference: http://docs.ansible.com/ansible/intro_getting_started.html#remote-connection-information

QUESTION 3

A company has an on-premises application that is written in Go. A DevOps engineer must move the application to AWS. The company's development team wants to enable blue/green deployments and perform A/B testing.

Which solution will meet these requirements?

A. Deploy the application on an Amazon EC2 instance, and create an AMI of the instance. Use the AMI to create an automatic scaling launch configuration that is used in an Auto Scaling group. Use Elastic Load Balancing to distribute traffic. When changes are made to the application, a new AMI will be created, which will initiate an EC2 instance refresh.

B. Use Amazon Lightsail to deploy the application. Store the application in a zipped format in an Amazon S3 bucket. Use this zipped version to deploy new versions of the application to Lightsail. Use Lightsail deployment options to manage the deployment.

C. Use AWS CodeArtifact to store the application code. Use AWS CodeDeploy to deploy the application to a fleet of Amazon EC2 instances. Use Elastic Load Balancing to distribute the traffic to the EC2 instances. When making changes to the application, upload a new version to CodeArtifact and create a new CodeDeploy deployment.

D. Use AWS Elastic Beanstalk to host the application. Store a zipped version of the application in Amazon S3. Use that location to deploy new versions of the application. Use Elastic Beanstalk to manage the deployment options.

Correct Answer: D

<https://aws.amazon.com/quickstart/architecture/blue-green-deployment/>

QUESTION 4

A company deploys updates to its Amazon API Gateway API several times a week by using an AWS CodePipeline pipeline. As part of the update process the company exports the JavaScript SDK for the API from the API Gateway console and uploads the SDK to an Amazon S3 bucket

The company has configured an Amazon CloudFront distribution that uses the S3 bucket as an origin. Web clients then download the SDK by using the CloudFront distribution's endpoint. A DevOps engineer needs to implement a solution to make the new SDK available automatically during new API deployments.

Which solution will meet these requirements?

A. Create a CodePipeline action immediately after the deployment stage of the API. Configure the action to invoke an AWS Lambda function. Configure the Lambda function to download the SDK from API Gateway, upload the SDK to the S3 bucket and create a CloudFront invalidation for the SDK path.

B. Create a CodePipeline action immediately after the deployment stage of the API. Configure the action to use the CodePipeline integration with API Gateway to export the SDK to Amazon S3. Create another action that uses the CodePipeline integration with Amazon S3 to invalidate the cache for the SDK path.

C. Create an Amazon EventBridge rule that reacts to UpdateStage events from AWS API Gateway. Configure the rule to invoke an AWS Lambda function to download the SDK from API Gateway, upload the SDK to the S3 bucket and call the CloudFront API to create an invalidation for the SDK path.



D. Create an Amazon EventBridge rule that reacts to Create. Deployment events from aws apigateway. Configure the rule to invoke an AWS Lambda function to download the SDK from API. Gateway upload the SDK to the S3 bucket and call the S3 API to invalidate the cache for the SDK path.

Correct Answer: A

This solution would allow the company to automate the process of updating the SDK and making it available to web clients. By adding a CodePipeline action immediately after the deployment stage of the API, the Lambda function will be invoked automatically each time the API is updated. The Lambda function should be able to download the new SDK from API Gateway, upload it to the S3 bucket and also create a CloudFront invalidation for the SDK path so that the latest version of the SDK is available for the web clients. This is the most straight forward solution and it will meet the requirements.

QUESTION 5

A DevOps Engineer has been asked to recommend a tool to deploy the components of a threetier web application. This application will use Amazon DynamoDB as a database Which deployment requires the LEAST amount of operational management?

- A. Use AWS CloudFormation to create a Classic Load Balancer and an Auto Scaling group. Use AWS OpsWorks to create the application and database resources Deploy application updates with OpsWorks using lifecycle events
- B. Use AWS OpsWorks to create a Classic Load Balancer, an Auto Scaling group application, and database resources Deploy application updates using OpsWorks lifecycle events
- C. Use AWS OpsWorks to create a Classic Load Balancer Auto Scaling and application resources Use AWS CloudFormation to create the database resources Deploy application updates using CloudFormation rolling updates
- D. Use AWS CloudFormation to create a Classic Load Balancer an Auto Scaling group and database resources Deploy application updates using CloudFormation rolling updates

Correct Answer: B

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