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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q293-Q298):

NEW QUESTION # 293

A DevOps engineer is creating an AWS CloudFormation template to deploy a web service. The web service will run on Amazon EC2 instances in a private subnet behind an Application Load Balancer (ALB). The DevOps engineer must ensure that the service can accept requests from clients that have IPv6 addresses.

What should the DevOps engineer do with the CloudFormation template so that IPv6 clients can access the web service?

- A. Replace the ALB with a Network Load Balancer (NLB). Add an IPv6 CIDR block to the VPC and subnets for the NLB, and assign the NLB an IPv6 Elastic IP address.
- B. Assign each EC2 instance an IPv6 Elastic IP address. Create a target group, and add the EC2 instances as targets. Create a listener on port 443 of the ALB, and associate the target group with the ALB.
- C. Add an IPv6 CIDR block to the VPC and the private subnet for the EC2 instances. Create route table entries for the IPv6 network, use EC2 instance types that support IPv6, and assign IPv6 addresses to each EC2 instance.
- D. Add an IPv6 CIDR block to the VPC and subnets for the ALB. Create a listener on port 443, and specify the dualstack IP address type on the ALB. Create a target group, and add the EC2 instances as targets. Associate the target group with the ALB.

Answer: D

Explanation:

Explanation

it involves adding an IPv6 CIDR block to the VPC and subnets for the ALB and specifying the dualstack IP address type on the ALB listener. This allows the ALB to listen on both IPv4 and IPv6 addresses, and forward requests to the EC2 instances that are added as targets to the target group associated with the ALB.

NEW QUESTION # 294

A company uses a series of individual Amazon Cloud Formation templates to deploy its multi-Region Applications. These templates must be deployed in a specific order. The company is making more changes to the templates than previously expected and wants to deploy new templates more efficiently. Additionally, the data engineering team must be notified of all changes to the templates.

What should the company do to accomplish these goals?

- A. Implement CloudFormation StackSets and use drift detection to trigger update alerts to the data engineering team.
- B. Host the Cloud Formation templates in Amazon S3 Use Amazon S3 events to directly trigger CloudFormation updates and Amazon SNS notifications.
- C. Leverage CloudFormation nested stacks and stack sets (or deployments Use Amazon SNS to notify the data engineering team
- D. Create an AWS Lambda function to deploy the Cloud Formation templates in the required order Use stack policies to alert the data engineering team.

Answer: C

Explanation:

This solution will meet the requirements because it will use CloudFormation nested stacks and stack sets to deploy the templates more efficiently and consistently across multiple regions. Nested stacks allow the company to separate out common components and reuse templates, while stack sets allow the company to create stacks in multiple accounts and regions with a single template. The company can also use Amazon SNS to send notifications to the data engineering team whenever a change is made to the templates or the stacks. Amazon SNS is a service that allows you to publish messages to subscribers, such as email addresses, phone numbers, or other AWS services. By using Amazon SNS, the company can ensure that the data engineering team is aware of all changes to the templates and can take appropriate actions if needed. What is Amazon SNS? - Amazon Simple Notification Service

NEW QUESTION # 295

A company has a fleet of Amazon EC2 instances that run Linux in a single AWS account. The company is using an AWS Systems Manager Automation task across the EC2 instances.

During the most recent patch cycle, several EC2 instances went into an error state because of insufficient available disk space. A DevOps engineer needs to ensure that the EC2 instances have sufficient available disk space during the patching process in the future.

Which combination of steps will meet these requirements? {Select TWO.)

- A. Create an Amazon CloudWatch log group for the EC2 instances. Configure a cron job that is installed on each EC2 instance to write the available disk space to a CloudWatch log stream for the relevant EC2 instance.
- B. Create a cron job that is installed on each EC2 instance to periodically delete temporary files.
- C. Create an AWS Lambda function to periodically check for sufficient available disk space on all EC2 instances by evaluating each EC2 instance's respective Amazon CloudWatch log stream.
- **D. Ensure that the Amazon CloudWatch agent is installed on all EC2 instances**
- **E. Create an Amazon CloudWatch alarm to monitor available disk space on all EC2 instances Add the alarm as a safety control to the Systems Manager Automation task.**

Answer: D,E

Explanation:

* Ensure that the Amazon CloudWatch agent is installed on all EC2 instances:

The Amazon CloudWatch agent collects and logs metrics and sends them to Amazon CloudWatch.

To install the CloudWatch agent:

Download the CloudWatch agent package.

Install the agent on your EC2 instances.

Configure the agent to collect disk space metrics.

* Create an Amazon CloudWatch alarm to monitor available disk space on all EC2 instances Add the alarm as a safety control to the Systems Manager Automation task:

Create CloudWatch alarms to monitor the available disk space and trigger notifications or actions when the disk space falls below a defined threshold.

Add the CloudWatch alarm to the Systems Manager Automation task to halt or fail the task if disk space is insufficient.

To create the alarm:

Navigate to the CloudWatch console and create a new alarm.

Set the metric to monitor (e.g., disk space utilization).

Define the threshold and notification actions.

Reference:

Amazon CloudWatch agent

Creating Amazon CloudWatch alarms

NEW QUESTION # 296

A company wants to set up a continuous delivery pipeline. The company stores application code in a private GitHub repository. The company needs to deploy the application components to Amazon Elastic Container Service (Amazon ECS), Amazon EC2, and AWS Lambda. The pipeline must support manual approval actions.

Which solution will meet these requirements?

- **A. Use AWS CodePipeline with AWS CodeDeploy as the deploy provider.**
- B. Use AWS CodeDeploy with GitHub integration to deploy the application.
- C. Use AWS CodePipeline with Amazon ECS, Amazon EC2, and Lambda as deploy providers.
- D. Use AWS CodePipeline with AWS Elastic Beanstalk as the deploy provider.

Answer: A

Explanation:

Explanation

<https://docs.aws.amazon.com/codedeploy/latest/userguide/deployment-steps.html>

NEW QUESTION # 297

A company is using AWS CodeDeploy to automate software deployment. The deployment must meet these requirements:

* A number of instances must be available to serve traffic during the deployment Traffic must be balanced across those instances, and the instances must automatically heal in the event of failure.

* A new fleet of instances must be launched for deploying a new revision automatically, with no manual provisioning.

* Traffic must be rerouted to the new environment to half of the new instances at a time. The deployment should succeed if traffic is rerouted to at least half of the instances; otherwise, it should fail.

* Before routing traffic to the new fleet of instances, the temporary files generated during the deployment process must be deleted.

* At the end of a successful deployment, the original instances in the deployment group must be deleted immediately to reduce costs.

How can a DevOps engineer meet these requirements?

- A. Use an Application Load Balancer and a blue/green deployment. Associate the Auto Scaling group and the Application Load Balancer target group with the deployment group. Use the Automatically copy Auto scaling group option, and use CodeDeployDefault:HalfAtATime as the deployment configuration. Instruct AWS CodeDeploy to terminate the original instances in the deployment group, and use the BeforeAllowTraffic hook within appspec.yml to delete the temporary files.
- B. Use an Application Load Balancer and an in-place deployment. Associate the Auto Scaling group with the deployment group. Use the Automatically copy Auto Scaling group option, and use CodeDeployDefault:OneAtATime as the deployment configuration. Instruct AWS CodeDeploy to terminate the original instances in the deployment group, and use the AllowTraffic hook within appspec.yml to delete the temporary files.
- C. Use an Application Load Balancer and an in-place deployment. Associate the Auto Scaling group and Application Load Balancer target group with the deployment group. Use the Automatically copy Auto Scaling group option, and use CodeDeployDefault:AllAtOnce as a deployment configuration. Instruct AWS CodeDeploy to terminate the original instances in the deployment group, and use the BlockTraffic hook within appspec.yml to delete the temporary files.
- D. Use an Application Load Balancer and a blue/green deployment. Associate the Auto Scaling group and Application Load Balancer target group with the deployment group. Use the Automatically copy Auto Scaling group option, create a custom deployment configuration with minimum healthy hosts defined as 50%, and assign the configuration to the deployment group. Instruct AWS CodeDeploy to terminate the original instances in the deployment group, and use the BeforeBlockTraffic hook within appspec.yml to delete the temporary files.

Answer: A

Explanation:

* Step 1: Use a Blue/Green Deployment Strategy A blue/green deployment strategy is necessary to meet the requirement of launching a new fleet of instances for each deployment and ensuring availability. In a blue/green deployment, the new version (green environment) is deployed to a separate set of instances, while the old version (blue environment) remains active. After testing the new version, traffic can be gradually shifted.

* Action: Use AWS CodeDeploy's blue/green deployment configuration.

* Why: Blue/green deployment minimizes downtime and ensures that traffic is shifted only to healthy instances.

NEW QUESTION # 298

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