DOP-C02^{Q&As}

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QUESTION 1

A company runs an application on Amazon EC2 instances. The company uses a series of AWS CloudFormation stacks to define the application resources. A developer performs updates by building and testing the application on a laptop and then uploading the build output and CloudFormation stack templates to Amazon S3. The developer\\'s peers review the changes before the developer performs the CloudFormation stack update and installs a new version of the application onto the EC2 instances.

The deployment process is prone to errors and is time-consuming when the developer updates each EC2 instance with the new application. The company wants to automate as much of the application deployment process as possible while retaining a final manual approval step before the modification of the application or resources.

The company already has moved the source code for the application and the CloudFormation templates to AWS CodeCommit. The company also has created an AWS CodeBuild project to build and test the application.

Which combination of steps will meet the company\\'s requirements? (Choose two.)

A. Create an application group and a deployment group in AWS CodeDeploy. Install the CodeDeploy agent on the EC2 instances.

B. Create an application revision and a deployment group in AWS CodeDeploy. Create an environment in CodeDeploy. Register the EC2 instances to the CodeDeploy environment.

C. Use AWS CodePipeline to invoke the CodeBuild job, run the CloudFormation update, and pause for a manual approval step. After approval, start the AWS CodeDeploy deployment.

D. Use AWS CodePipeline to invoke the CodeBuild job, create CloudFormation change sets for each of the application stacks, and pause for a manual approval step. After approval, run the CloudFormation change sets and start the AWS CodeDeploy deployment.

E. Use AWS CodePipeline to invoke the CodeBuild job, create CloudFormation change sets for each of the application stacks, and pause for a manual approval step. After approval, start the AWS CodeDeploy deployment.

Correct Answer: AD

A-https://docs.aws.amazon.com/codedeploy/latest/userguide/codedeploy-agent.html D -This option correctly utilizes AWS CodePipeline to invoke the CodeBuild job and create CloudFormation change sets. It adds a manual approval step before executing the change sets and starting the AWS CodeDeploy deployment. This ensures that the deployment process is automated while retaining the final manual approval step.

QUESTION 2

Which Auto Scaling process would be helpful when testing new instances before sending traffic to them, while still keeping them in your Auto Scaling Group?

A. Suspend the process AZ Rebalance

B. Suspend the process Health Check

C. Suspend the process Replace Unhealthy

D. Suspend the process AddToLoadBalancer

Correct Answer: D

If you suspend Add To Load Balancer, Auto Scaling launches the instances but does not add them to the load balancer or target group. If you resume the AddTo Load Balancer process. Auto Scaling resumes adding instances to the load balancer or target group when they are launched. However, Auto Scaling does not add the instances that were launched while this process was suspended. You must register those instances manually. Option A is invalid because this just balances the number of CC2 instances in the group across the Availability Zones in the region Option B is invalid because this just checks the health of the instances. Auto Scaling marks an instance as unhealthy if Amazon CC2 or Clastic Load Balancing tells Auto Scaling that the instance is unhealthy. Option C is invalid because this process just terminates instances that are marked as unhealthy and later creates new instances to replace them.

QUESTION 3

A company is testing a web application that runs on Amazon EC2 instances behind an Application Load Balancer. The instances run in an Auto Scaling group across multiple Availability Zones. The company uses a blue green deployment process with immutable instances when deploying new software.

During testing users are being automatically logged out of the application at random times. Testers also report that when a new version of the application is deployed all users are logged out. The development team needs a solution to ensure users remain logged m across scaling events and application deployments.

What is the MOST operationally efficient way to ensure users remain logged in?

A. Enable smart sessions on the load balancer and modify the application to check tor an existing session.

B. Enable session sharing on the toad balancer and modify the application to read from the session store.

C. Store user session information in an Amazon S3 bucket and modify the application to read session information from the bucket.

D. Modify the application to store user session information in an Amazon ElastiCache cluster.

Correct Answer: D

https://aws.amazon.com/caching/session-management/

QUESTION 4

A company wants to use AWS Systems Manager documents to bootstrap physical laptops for developers. The bootstrap code is stored in GitHub. A DevOps engineer has already created a Systems Manager activation, installed the Systems Manager agent with the registration code, and installed an activation ID on all the laptops.

Which set of steps should be taken next?

A. Configure the Systems Manager document to use the AWS-RunShellScript command to copy the files from GitHub to Amazon S3, then use the aws-downloadContent plugin with a sourceType of S3.

B. Configure the Systems Manager document to use the aws-configurePackage plugin with an install action and point to the Git repository.

C. Configure the Systems Manager document to use the aws-downloadContent plugin with a sourceType of GitHub and sourceInfo with the repository details.

D. Configure the Systems Manager document to use the aws:softwareInventory plugin and run the script from the Git repository.

Correct Answer: C

QUESTION 5

A company is using an Amazon Aurora cluster as the data store for its application. The Aurora cluster is configured with a single DB instance. The application performs read and write operations on the database by using the cluster\\'s instance endpoint.

The company has scheduled an update to be applied to the cluster during an upcoming maintenance window. The cluster must remain available with the least possible interruption during the maintenance window.

What should a DevOps engineer do to meet these requirements?

A. Add a reader instance to the Aurora cluster. Update the application to use the Aurora cluster endpoint for write operations. Update the Aurora cluster\\'s reader endpoint for reads.

B. Add a reader instance to the Aurora cluster. Create a custom ANY endpoint for the cluster. Update the application to use the Aurora cluster\\'s custom ANY endpoint for read and write operations.

C. Turn on the Multi-AZ option on the Aurora cluster. Update the application to use the Aurora cluster endpoint for write operations. Update the Aurora cluster\\'s reader endpoint for reads.

D. Turn on the Multi-AZ option on the Aurora cluster. Create a custom ANY endpoint for the cluster. Update the application to use the Aurora cluster\\'s custom ANY endpoint for read and write operations.

Correct Answer: A

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