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QUESTION 1

A company uses an Amazon Elastic Kubernetes Service (Amazon EKS) cluster to host its machine learning (ML) application. As the ML model and the container image size grow, the time that new pods take to start up has increased to several minutes.

A DevOps engineer needs to reduce the startup time to seconds. The solution must also reduce the startup time to seconds when the pod runs on nodes that were recently added to the cluster.

The DevOps engineer creates an Amazon EventBridge rule that invokes an automation in AWS Systems Manager. The automation prefetches the container images from an Amazon Elastic Container Registry (Amazon ECR) repository when new images are pushed to the repository. The DevOps engineer also configures tags to be applied to the cluster and the node groups.

What should the DevOps engineer do next to meet the requirements?

- A. Create an IAM role that has a policy that allows EventBridge to use Systems Manager to run commands in the EKS cluster's control plane nodes. Create a Systems Manager State Manager association that uses the control plane nodes' tags to prefetch corresponding container images.
- B. Create an IAM role that has a policy that allows EventBridge to use Systems Manager to run commands in the EKS cluster's nodes. Create a Systems Manager State Manager association that uses the nodes' machine size to prefetch corresponding container images.
- C. Create an IAM role that has a policy that allows EventBridge to use Systems Manager to run commands in the EKS cluster's nodes. Create a Systems Manager State Manager association that uses the nodes' tags to prefetch corresponding container images.
- D. Create an IAM role that has a policy that allows EventBridge to use Systems Manager to run commands in the EKS cluster's control plane nodes. Create a Systems Manager State Manager association that uses the nodes' tags to prefetch corresponding container images.

Correct Answer: C

QUESTION 2

A company has microservices running in AWS Lambda that read data from Amazon DynamoDB. The Lambda code is manually deployed by developers after successful testing. The company now needs the tests and deployments be automated and run in the cloud. Additionally, traffic to the new versions of each microservice should be incrementally shifted over time after deployment.

What solution meets all the requirements, ensuring the MOST developer velocity?

- A. Create an AWS CodePipeline configuration and set up a post-commit hook to trigger the pipeline after tests have passed. Use AWS CodeDeploy and create a Canary deployment configuration that specifies the percentage of traffic and interval.
- B. Create an AWS CodeBuild configuration that triggers when the test code is pushed. Use AWS CloudFormation to trigger an AWS CodePipeline configuration that deploys the new Lambda versions and specifies the traffic shift percentage and interval.
- C. Create an AWS CodePipeline configuration and set up the source code step to trigger when code is pushed. Set up the build step to use AWS CodeBuild to run the tests. Set up an AWS CodeDeploy configuration to deploy, then select



the CodeDeployDefault.LambdaLinear10PercentEvery3Minutes option.

D. Use the AWS CLI to set up a post-commit hook that uploads the code to an Amazon S3 bucket after tests have passed Set up an S3 event trigger that runs a Lambda function that deploys the new version. Use an interval in the Lambda function to deploy the code over time at the required percentage.

Correct Answer: C

QUESTION 3

A company wants to use AWS CloudFormation for infrastructure deployment. The company has strict tagging and resource requirements and wants to limit the deployment to two Regions. Developers will need to deploy multiple versions of the same application.

Which solution ensures resources are deployed in accordance with company policy?

- A. Create AWS Trusted Advisor checks to find and remediate unapproved CloudFormation StackSets.
- B. Create a Cloud Formation drift detection operation to find and remediate unapproved CloudFormation StackSets.
- C. Create CloudFormation StackSets with approved CloudFormation templates.
- D. Create AWS Service Catalog products with approved CloudFormation templates.

Correct Answer: D

service catalog uses stacksets and can enforce tag and restrict resources AWS Customer case with tag enforcement <https://aws.amazon.com/ko/blogs/apn/enforce-centralized-tag-compliance-using-aws-service-catalog-amazon-dynamodb-aws-lambda-and-amazon-cloudwatch-events/> And Youtube video showing how to restrict resources per user with portfolio <https://www.youtube.com/watch?v=LzvhTcqyog>

QUESTION 4

A company has set up AWS CodeArtifact repositories with public upstream repositories. The company's development team consumes open source dependencies from the repositories in the company's internal network.

The company's security team recently discovered a critical vulnerability in the most recent version of a package that the development team consumes. The security team has produced a patched version to fix the vulnerability. The company needs to prevent the vulnerable version from being downloaded. The company also needs to allow the security team to publish the patched version.

Which combination of steps will meet these requirements? (Choose two.)

- A. Update the status of the affected CodeArtifact package version to unlisted.
- B. Update the status of the affected CodeArtifact package version to deleted.
- C. Update the status of the affected CodeArtifact package version to archived.
- D. Update the CodeArtifact package origin control settings to allow direct publishing and to block upstream operations.
- E. Update the CodeArtifact package origin control settings to block direct publishing and to allow upstream operations.



Correct Answer: CD

QUESTION 5

A company runs an application on one Amazon EC2 instance. Application metadata is stored in Amazon S3 and must be retrieved if the instance is restarted. The instance must restart or relaunch automatically if the instance becomes unresponsive.

Which solution will meet these requirements?

- A. Create an Amazon CloudWatch alarm for the StatusCheckFailed metric. Use the recover action to stop and start the instance. Use an S3 event notification to push the metadata to the instance when the instance is back up and running.
- B. Configure AWS OpsWorks, and use the auto healing feature to stop and start the instance. Use a lifecycle event in OpsWorks to pull the metadata from Amazon S3 and update it on the instance.
- C. Use EC2 Auto Recovery to automatically stop and start the instance in case of a failure. Use an S3 event notification to push the metadata to the instance when the instance is back up and running.
- D. Use AWS CloudFormation to create an EC2 instance that includes the UserData property for the EC2 resource. Add a command in UserData to retrieve the application metadata from Amazon S3.

Correct Answer: B

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