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To earn the certification, candidates must demonstrate their ability to design and manage continuous delivery systems and methodologies on AWS, implement and automate security controls, deploy and operate highly available, scalable, and fault-tolerant systems, and monitor and log systems to ensure operational availability and performance.

The AWS Certified DevOps Engineer – Professional (DOP-C02) is an advanced-level certification offered by Amazon Web Services (AWS). AWS Certified DevOps Engineer - Professional certification is designed for IT professionals who have experience in developing and managing applications on the AWS platform. It is intended to validate the skills and expertise of individuals in implementing, automating, and managing DevOps practices on AWS.

Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q415-Q420):

NEW QUESTION # 415
A company is using an organization in AWS Organizations to manage multiple AWS accounts. The company's development team wants to use AWS Lambda functions to meet resiliency requirements and is rewriting all applications to work with Lambda functions that are deployed in a VPC. The development team is using Amazon Elastic Pile System (Amazon EFS) as shared storage in Account A in the organization.
The company wants to continue to use Amazon EPS with Lambda Company policy requires all serverless projects to be deployed

in Account B.
A DevOps engineer needs to reconfigure an existing EFS file system to allow Lambda functions to access the data through an existing EPS access point.
Which combination of steps should the DevOps engineer take to meet these requirements? (Select THREE.)

- A. Create SCPs to set permission guardrails with fine-grained control for Amazon EFS.
- B. Configure the Lambda functions in Account B to assume an existing IAM role in Account A.
- C. Create a VPC peering connection to connect Account A to Account B.
- D. Update the EFS file system policy to provide Account B with access to mount and write to the EFS file system in Account A.
- E. Update the Lambda execution roles with permission to access the VPC and the EFS file system.
- F. Create a new EFS file system in Account B Use AWS Database Migration Service (AWS DMS) to keep data from Account A and Account B synchronized.

Answer: B,C,D

Explanation:
A Lambda function in one account can mount a file system in a different account. For this scenario, you configure VPC peering between the function VPC and the file system VPC.https://docs.aws.amazon.com
/lambda/latest/dg/services-efs.html
https://aws.amazon.com/ru/blogs/storage/mount-amazon-efs-file-systems-cross-account-from-amazon-eks/
1. Need to update the file system policy on EFS to allow mounting the file system into Account B.
File System Policy
$ cat file-system-policy.json
{
"Statement": [
{
"Effect": "Allow",
"Action": [
"elasticfilesystem:ClientMount",
"elasticfilesystem:ClientWrite"
],
"Principal": {
"AWS": "arn:aws:iam::<aws-account-id-A>:root" # Replace with AWS account ID of EKS cluster
}
}
]
}
2. Need VPC peering between Account A and Account B as the pre-requisite
3. Need to assume cross-account IAM role to describe the mounts so that a specific mount can be chosen.

NEW QUESTION # 416
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-downloadContent plugin with a sourceType of GitHub and sourceInfo with the repository details.
- 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:softwareInventory plugin and run the script from the Git repository
- D. Configure the Systems Manager document to use the AWS-RunShellScnpt command to copy the files from GitHub to Amazon S3, then use the aws-downloadContent plugin with a sourceType of S3

Answer: A

Explanation:
Configure the Systems Manager Document to Use the aws-downloadContent Plugin with a sourceType of GitHub and sourceInfo

with the Repository Details:
The aws-downloadContent plugin can download content from various sources, including GitHub, which is necessary for bootstrapping the laptops with the code stored in the GitHub repository.
schemaVersion: '2.2'
description: "Download and run bootstrap script from GitHub"
mainSteps:
- action: aws:downloadContent
name: downloadBootstrapScript
inputs:
sourceType: GitHub
sourceInfo: '{"owner":"my-org","repository":"my-repo","path":"scripts/bootstrap.sh","getOptions":"branch:main"}' destinationPath: /tmp/bootstrap.sh
- action: aws:runShellScript
name: runBootstrapScript
inputs:
runCommand:
- chmod +x /tmp/bootstrap.sh
- /tmp/bootstrap.sh
This setup ensures that the bootstrap code is downloaded from GitHub and executed on the laptops using Systems Manager.
Reference:
AWS Systems Manager aws-downloadContent Plugin
Running Commands Using Systems Manager

NEW QUESTION # 417
A company runs an application in an Auto Scaling group of Amazon EC2 instances behind an Application Load Balancer (ALB). The EC2 instances run Docker containers that make requests to a MySQL database that runs on separate EC2 instances. A DevOps engineer needs to update the application to use a serverless architecture. Which solution will meet this requirement with the FEWEST changes?

- A. Replace the containers that run on EC2 instances with AWS Fargate. Replace the MySQL database with an Amazon Aurora Serverless v2 database that is compatible with MySQL.
- B. Replace the containers that run on EC2 instances and the ALB with AWS Lambda functions. Replace the MySQL database with an Amazon Aurora Serverless v2 database that is compatible with MySQL.
- C. Replace the containers that run on EC2 instances with AWS Fargate. Replace the MySQL database with Amazon DynamoDB tables.
- D. Replace the containers that run on EC2 instances and the ALB with AWS Lambda functions. Replace the MySQL database with Amazon DynamoDB tables.

Answer: A

NEW QUESTION # 418
A company's application uses a fleet of Amazon EC2 On-Demand Instances to analyze and process data. The EC2 instances are in an Auto Scaling group. The Auto Scaling group is a target group for an Application Load Balancer (ALB). The application analyzes critical data that cannot tolerate interruption. The application also analyzes noncritical data that can withstand interruption.
The critical data analysis requires quick scalability in response to real-time application demand. The noncritical data analysis involves memory consumption. A DevOps engineer must implement a solution that reduces scale-out latency for the critical data. The solution also must process the noncritical data.
Which combination of steps will meet these requirements? (Select TWO.)

- A. For the noncritical data, create a second Auto Scaling group that uses a launch template. Configure the launch template to install the unified Amazon CloudWatch agent and to configure the CloudWatch agent with a custom memory utilization metric. Use Spot Instances. Add the new Auto Scaling group as the target group for the ALB. Modify the application to use two target groups for critical data and noncritical data.
- B. For the critical data. modify the existing Auto Scaling group. Create a lifecycle hook to ensure that bootstrap scripts are completed successfully. Ensure that the application on the instances is ready to accept traffic before the instances are registered. Create a new version of the launch template that has detailed monitoring enabled.
- C. For the critical data, modify the existing Auto Scaling group. Create a warm pool instance in the stopped state. Define the warm pool size. Create a new version of the launch template that has detailed monitoring enabled. Use On-Demand

Instances.

- D. For the critical data, modify the existing Auto Scaling group. Create a warm pool instance in the stopped state. Define the warm pool size. Create a new version of the launch template that has detailed monitoring enabled. use Spot Instances.
- E. For the noncritical data, create a second Auto Scaling group. Choose the predefined memory utilization metric type for the target tracking scaling policy. Use Spot Instances. Add the new Auto Scaling group as the target group for the ALB. Modify the application to use two target groups for critical data and noncritical data.

Answer: A,C

Explanation:
Explanation
For the critical data, using a warm pool1 can reduce the scale-out latency by having pre-initialized EC2 instances ready to serve the application traffic. Using On-Demand Instances can ensure that the instances are always available and not interrupted by Spot interruptions2.
For the noncritical data, using a second Auto Scaling group with Spot Instances can reduce the cost and leverage the unused capacity of EC23. Using a launch template with the CloudWatch agent4 can enable the collection of memory utilization metrics, which can be used to scale the group based on the memory demand. Adding the second group as a target group for the ALB and modifying the application to use two target groups can enable routing the traffic based on the data type.
References: 1: Warm pools for Amazon EC2 Auto Scaling 2: Amazon EC2 On-Demand Capacity Reservations 3: Amazon EC2 Spot Instances 4: Metrics collected by the CloudWatch agent

NEW QUESTION # 419
A company has implemented a new microservices-based application on an Amazon Elastic Container Service (Amazon ECS) cluster. After each deployment, the company wants to validate the critical user journeys and API endpoints before routing traffic to the new application version.
The company must implement an automated solution to detect issues in the new deployment and to initiate a rollback if necessary.
Which solution will meet these requirements with the LEAST operational overhead?

- A. Set up Amazon CloudWatch Application Insights for the ECS cluster. Create an Amazon EventBridge rule to invoke an AWS Lambda function to analyze the task states. Program the Lambda function to use the ECS UpdateService API call to initiate a rollback if a specific percentage of tasks fail.
- B. Set up Amazon CloudWatch Application Insights for the ECS cluster. Configure Application Insights to monitor key performance indicators of the microservices in the critical user journeys and API calls. Create CloudWatch alarms based on the insights. Use EventBridge to invoke an AWS Step Functions workflow to evaluate the alarms. Configure the workflow to initiate a rollback if necessary by using the alarms' built-in integration with Amazon ECS.
- C. Create CloudWatch Synthetics canaries that simulate critical user journeys and API calls. Configure the canaries to run against the new deployment. Create CloudWatch alarms that are invoked when canaries fail. Use the alarms' built-in integration with Amazon ECS to initiate a rollback if the alarms are invoked before traffic is routed to the new deployment.
- D. Create CloudWatch Synthetics canaries that simulate critical user journeys and API calls. Implement AWS X-Ray tracing for all the microservices. Configure X-Ray to send traces to CloudWatch. Create CloudWatch alarms based on error rates and latency metrics. Create a Lambda function to analyze the traces and to initiate a rollback if necessary by using the alarms' built-in integration with Amazon ECS.

Answer: C

Explanation:
The requirement is specifically to validate critical user journeys and API endpoints after each deployment and before routing traffic.
The most direct AWS-native way to test "real" user flows and endpoints automatically is CloudWatch Synthetics canaries, which can run scripted checks (HTTP/API and browser-style journeys).
Option D minimizes operational overhead because it uses a straightforward managed pattern:
Canaries run against the new deployment to validate endpoints and journeys.
CloudWatch alarms trigger when the canaries fail (objective signal of broken journeys/APIs).
The solution then uses alarm-driven rollback (the intent here is automated rollback without writing custom analysis code or managing multi-service workflows).
Why the other options have more overhead or miss the "user journey/API validation" goal as cleanly:
A focuses on ECS task states (healthy/unhealthy tasks). That can detect deployment failures, but it doesn't validate critical user journeys or API correctness. Also requires custom Lambda logic for analysis + rollback control.
B adds even more moving parts (Application Insights + alarms + EventBridge + Step Functions). Also, monitoring KPIs is not the same as explicitly validating journeys/endpoints before routing traffic.
C is the highest overhead: canaries plus X-Ray instrumentation across all microservices, trace exporting, custom Lambda analysis,

etc. That's heavy compared to canary + alarm.

NEW QUESTION # 420

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