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Amazon DOP-C02 Exam Syllabus Topics:

Section	Weight	Objectives
		- Operational response and recovery
Incident and Event Management	18%	1. Automated event-driven responses 2. Incident detection and remediation
		- Observability and metrics
Monitoring and Logging	15%	1. CloudWatch monitoring and alarms 2. Log aggregation and analysis
		- High availability and fault tolerance design
Resilient Cloud Solutions	15%	1. Disaster recovery strategies 2. Multi-AZ and multi-region architectures
		- Security automation in CI/CD and infrastructure
Security and Compliance Automation	13%	1. Compliance monitoring and auditing 2. IAM policy automation and governance
		- Infrastructure provisioning and automation
Configuration Management and Infrastructure as Code	17%	1. Configuration tools and automation strategies 2. AWS CloudFormation and CDK usage
		- CI/CD pipeline design and implementation
SDLC Automation	22%	1. Build and deployment automation 2. Pipeline optimization and scaling

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Amazon AWS Certified DevOps Engineer - Professional Sample Questions (Q338-Q343):

NEW QUESTION # 338

A DevOps administrator is responsible for managing the security of a company's Amazon CloudWatch Logs log groups. The company's security policy states that employee IDs must not be visible in logs except by authorized personnel. Employee IDs follow the pattern of Emp-XXXXXX, where each X is a digit.

An audit discovered that employee IDs are found in a single log file. The log file is available to engineers, but the engineers are not authorized to view employee IDs. Engineers currently have an AWS IAM Identity Center permission that allows logs:* on all resources in the account.

The administrator must mask the employee ID so that new log entries that contain the employee ID are not visible to unauthorized personnel.

Which solution will meet these requirements with the MOST operational efficiency?

- A. Create a new data protection policy on the log group. Add an Emp-\d{6} custom data identifier configuration. Create an IAM policy that has a Deny action for the "Action":"logs:Unmask" permission on the resource. Attach the policy to the engineering accounts.
- B. Create an Amazon Data Firehose delivery stream that has an Amazon S3 bucket as the destination. Create a Firehose subscription filter on the log group that uses the Firehose delivery stream. Remove the "logs:*" permission on the engineering accounts. Create an Amazon Macie job on the S3 bucket that has an Emp-\d{6} custom identifier.
- C. Create a new data protection policy on the log group. Add managed data identifiers for the personal data category. Create an IAM policy that has a Deny action for the "NotAction":"logs:Unmask" permission on the resource. Attach the policy to the engineering accounts.
- D. Create an AWS Lambda function to parse a log file entry, remove the employee ID, and write the results to a new log file. Create a Lambda subscription filter on the log group and select the Lambda function. Grant the lambda:InvokeFunction permission to the log group.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Amazon CloudWatch Logs now supports data protection policies that can mask sensitive data in logs at ingestion time using custom data identifiers. By creating a custom data identifier matching the employee ID pattern (Emp-\d{6}), the administrator can mask those patterns in new log entries automatically.

Assigning an IAM policy that denies the logs:Unmask action to engineers prevents them from seeing unmasked sensitive data, enforcing least privilege access.

This approach is operationally efficient because it uses built-in CloudWatch Logs data protection capabilities without the need for complex custom code or manual log filtering.

Option C requires writing and managing Lambda functions for log transformation, increasing operational overhead. Option D is more complex and reactive rather than preventing the sensitive data exposure. Option B incorrectly references NotAction and managed identifiers that may not match the custom pattern.

Reference:

Amazon CloudWatch Logs Data Protection Policies: "You can create data protection policies with custom data identifiers to mask sensitive information such as employee IDs in log data." (AWS Documentation on CloudWatch Logs Data Protection)

NEW QUESTION # 339

A company uses AWS CodeArtifact to centrally store Python packages. The CodeArtifact repository is configured with the following repository policy.

```
"Version": "2012-10-17",
"Statement": [
{
  "Action": [
    "codeartifact:DescribePackageVersion", "codeartifact:DescribeRepository",
    "codeartifact:GetPackageVersionReadme", "codeartifact:GetRepositoryEndpoint", "codeartifact:
    ListPackageVersionAssets", "codeartifact: ListPackageVersionDependencies", "codeartifact:
    ListPackageVersions", "codeartifact :ListPackages",
    "codeartifact: ReadFromRepository"
  ],
  "Effect": "Allow",
  "Resource": "*",
  "Principal":
  "Condition": {
    "StringEquals": {
      "aws:PrincipalOrgID": [ "o-xxxxxxxxxx"
    ]
  }
}
}
}
}
```

A development team is building a new project in an account that is in an organization in AWS Organizations.

The development team wants to use a Python library that has already been stored in the CodeArtifact repository in the organization. The development team uses AWS CodePipeline and AWS CodeBuild to build the new application. The CodeBuild job that the development team uses to build the application is configured to run in a VPC. Because of compliance requirements the VPC has no internet connectivity.

The development team creates the VPC endpoints for CodeArtifact and updates the CodeBuild buildspec yaml file. However, the development team cannot download the Python library from the repository.

Which combination of steps should a DevOps engineer take so that the development team can use Code Artifact? (Select TWO.)

- A. Update the role that the CodeBuild project uses so that the role has sufficient permissions to use the CodeArtifact repository.
- B. Update the repository policy's Principal statement to include the ARN of the role that the CodeBuild project uses.
- C. Share the CodeArtifact repository with the organization by using AWS Resource Access Manager (AWS RAM).
- D. Create an Amazon S3 gateway endpoint. Update the route tables for the subnets that are running the CodeBuild job.
- E. Specify the account that hosts the repository as the delegated administrator for CodeArtifact in the organization.

Answer: A,D

Explanation:

"AWS CodeArtifact operates in multiple Availability Zones and stores artifact data and metadata in Amazon S3 and Amazon DynamoDB. Your encrypted data is redundantly stored across multiple facilities and multiple devices in each facility, making it highly available and highly durable." <https://aws.amazon.com/codeartifact>

/features/ With no internet connectivity, a gateway endpoint becomes necessary to access S3.

NEW QUESTION # 340

A development team uses AWS CodeCommit, AWS CodePipeline, and AWS CodeBuild to develop and deploy an application. Changes to the code are submitted by pull requests. The development team reviews and merges the pull requests, and then the pipeline builds and tests the application.

Over time, the number of pull requests has increased. The pipeline is frequently blocked because of failing tests. To prevent this blockage, the development team wants to run the unit and integration tests on each pull request before it is merged.

Which solution will meet these requirements?

- A. Create a CodeBuild project to run the unit and integration tests. Create a CodeCommit notification rule that matches when a pull request is created or updated. Configure the notification rule to invoke the CodeBuild project.
- B. Create an Amazon EventBridge rule to match pullRequestCreated events from CodeCommit. Modify the existing CodePipeline pipeline to not run the deploy steps if the build is started from a pull request. Configure the EventBridge rule to run the pipeline with a custom payload that contains the CodeCommit repository and

branch information from the event.

- C. Create a CodeBuild project to run the unit and integration tests. Create a CodeCommit approval rule template. Configure the template to require the successful invocation of the CodeBuild project. Attach the approval rule to the project's CodeCommit repository.
- D. Create an Amazon EventBridge rule to match pullRequestCreated events from CodeCommit. Create a CodeBuild project to run the unit and integration tests. Configure the CodeBuild project as a target of the EventBridge rule that includes a custom event payload with the CodeCommit repository and branch information from the event.

Answer: D

Explanation:

CodeCommit generates events in CloudWatch, CloudWatch triggers the CodeBuild <https://aws.amazon.com/es/blogs/devops/complete-ci-cd-with-aws-codecommit-aws-codebuild-aws-codedeploy-and-aws-codepipeline/>

NEW QUESTION # 341

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. 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.
- B. 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.
- C. 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.
- D. 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.

Answer: D

Explanation:

<https://aws.amazon.com/blogs/mt/how-to-set-up-aws-opsworks-stacks-auto-healing-notifications-in-amazon-cloudwatch-events/>

NEW QUESTION # 342

A cloud team uses AWS Organizations and AWS IAM Identity Center to manage a company's AWS accounts. The company recently established a research team. The research team requires the ability to fully manage the resources in its account. The research team must not be able to create IAM users.

The cloud team creates a Research Administrator permission set in IAM Identity Center for the research team.

The permission set has the AdministratorAccess AWS managed policy attached. The cloud team must ensure that no one on the research team can create IAM users.

Which solution will meet these requirements?

- A. Create an SCP that denies the iam CreateUser action. Attach the SCP to the research team's AWS account.
- B. Create an AWS Lambda function that deletes IAM users. Create an Amazon EventBridge rule that detects the IAM CreateUser event. Configure the rule to invoke the Lambda function.
- C. Create an IAM policy that denies the iam CreateUser action. Attach the IAM policy to the Research Administrator permission set.
- D. Create an IAM policy that allows all actions except the iam CreateUser action. Use the IAM policy to set the permissions boundary for the Research Administrator permission set.

Answer: A

Explanation:

Service Control Policies in AWS Organizations set the maximum permissions available to all identities within an account, including users who have administrator-level permission sets in IAM Identity Center. A Deny SCP for iam CreateUser attached to the research team's account overrides the AdministratorAccess policy in the permission set and cannot be bypassed by any action within the account. This makes it the most enforceable and tamper-resistant solution. Option A attaches a deny policy to the permission set itself, which would work for sessions using that permission set, but does not prevent IAM users in the account from creating other IAM users. Option B sets a permissions boundary, which can only limit a role's maximum permissions, not prevent

users from performing actions outside their own role's context. Option D is reactive, allowing IAM user creation before deletion, which is not prevention.

NEW QUESTION # 343

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